

# Automotive and Trucks





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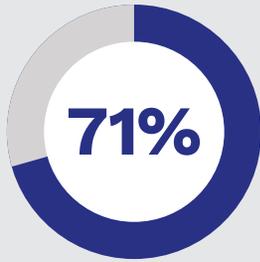
An illustration of a student with dark hair, wearing a light blue long-sleeved shirt and yellow pants, sitting in a grey chair and working on a laptop. The background is dark blue with faint, light blue outlines of computer monitors and a potted plant with green leaves and a red and white striped pot. A white mouse cursor arrow points towards the bottom right of the page.

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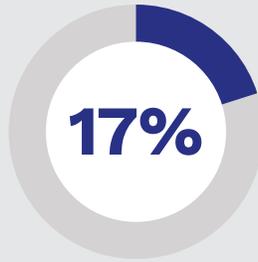
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# APPLIED MATHEMATICS FOR CAREERS

## MATH FOR AUTOMECHANICS

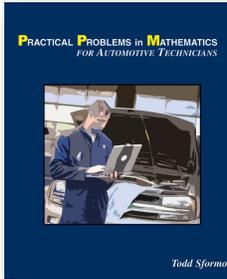
### PRACTICAL PROBLEMS IN MATHEMATICS, 7E

For Automotive Technicians

Todd Sformo, *Ilisagvik College*

© 2009, 288pp, Paperback, 9781428335240

### eBook



Comprehensive and easy to use, the revised and updated seventh edition covers practical math problems that automotive technicians will face on the job. The easy-to-read and well organized chapters of Practical Problems in Mathematics for Automotive

Technicians, Seventh Edition feature step-by-step instructions, diagrams, charts, and examples that facilitate the problem-solving process while reinforcing key concepts. The presentation builds from the basics of whole-number operations to cover percentages, linear measurement, ratios, and the use of more advanced formulas. With a special section on graphs, scale reading of test meters, and invoices found in the workplace, this text is tailor-made for students in any automotive course of study!

# AUTOMOTIVE

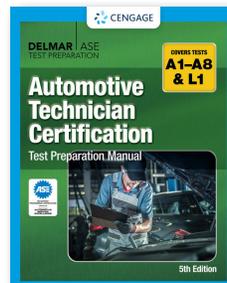
## ASE PREPARATION AND NATEF CERTIFICATION

### AUTOMOTIVE TECHNICIAN CERTIFICATION TEST PREPARATION MANUAL A-SERIES, 5E

*Cengage Learning*

© 2021, 934pp, Paperback, 9780357644607

### MindTap



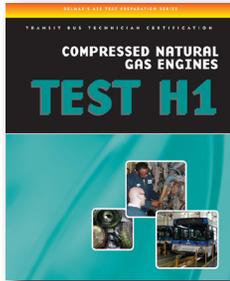
One of the most trusted test preparation guides in the industry, AUTOMOTIVE TECHNICIAN CERTIFICATION TEST PREPARATION MANUAL A-SERIES, 5th Edition, will help to prepare users for the A1-A8 and L1 ASE certification exams. The

guide is highly effective in covering need-to-know information to help users pass their exams. Each section starts with a complete overview of the ASE Tasks for that specific system. Next, each section includes ASE Style practice exams to test your knowledge on these critical ASE Tasks. Finally, each section ends an explanation of answers and ASE Task remediation. The end result: is a powerful test preparation tool, filled with updated task list theory, practice tests, and abundant, demonstrative graphics, which will arm users with the knowledge they need to master the ASE certification exams.

## ASE TEST PREPARATION - TRANSIT BUS H1, COMPRESSED NATURAL GAS

*Delmar, Cengage Learning*

© 2011, 254pp, Paperback, 9781435439399



With more natural gas vehicles on the roads than ever before, today's technicians need to be prepared to service these vehicles, both in the shop and in a testing environment for ASE certification. To accomplish this, ASE Test Preparation – H1,

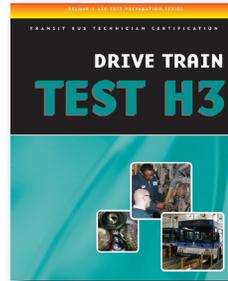
Compressed Natural Gas has gathered the latest need-to-know information about the new compressed natural gas task list, and paired it with ASE-style practice tests. The book begins with a history of the ASE and progresses to include guidelines, techniques, and strategies for taking and passing the certification exams. An overview of the task lists follows and is reinforced with both ASE-style practice questions and answer rationales that allow readers to practice their test-taking skills and identify areas in need of improvement.

---

## ASE TEST PREPARATION - TRANSIT BUS H3, DRIVE TRAIN

*Delmar*

© 2009, 254pp, Paperback, 9781435453760



When you study with this ASE Test Preparation Manual for your Transit Bus Drive Train (H3) exam, you can be confident that you're getting the most up-to-date ASE task list available and the most current industry information. This comprehensive resource provides the skills, knowledge, and practice questions needed to successfully prepare for the exam. Ideal for entry-level transit bus technicians, as well as any transit bus technician seeking certification, it is a must-have in the journey toward certification.

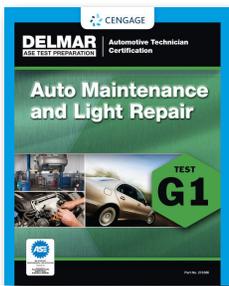
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## ASE TEST PREPARATION MANUALS

### ASE TECHNICIAN TEST PREPARATION AUTOMOTIVE MAINTENANCE AND LIGHT REPAIR (G1)

*Delmar Cengage Learning*

© 2014, 288pp, Paperback, 9781285753805



The first edition of DELMAR'S AUTOMOTIVE SERVICE EXCELLENCE ( A S E ) TEST PREPARATION MANUAL for the G1 Maintenance and Light Repair exam now contains even more content so you can pass your ASE exam the first time. This

manual will ensure that you understand the Maintenance and Light Repair task list and are fully prepared and confident to take your exam.

---

### ASE TEST PREP- T8 PREVENTIVE MAINTENANCE, 5E

*Delmar, Cengage Learning*

© 2013, 256pp, Paperback, 9781111129040

#### eBook



The fifth edition of DELMAR'S AUTOMOTIVE SERVICE EXCELLENCE ( A S E ) TEST PREPARATION MANUAL for the Medium/Heavy Duty Truck T8 Preventive Maintenance exam now contains even more content so you can pass your ASE

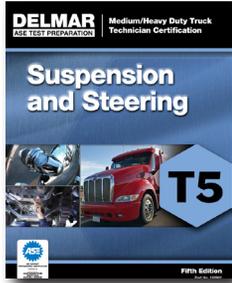
exam the first time. This manual will ensure that you understand the Preventive Maintenance task list and are fully prepared and confident to take your exam.

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## ASE TEST PREPARATION - T5 SUSPENSION AND STEERING, 5E

*Delmar, Cengage Learning*

© 2013, 176pp, Paperback, 9781111129019



The fifth edition of DELMAR'S AUTOMOTIVE SERVICE EXCELLENCE (ASE) TEST PREPARATION MANUAL for the Medium/Heavy Duty Truck T5 Suspension and Steering exam now contains even more content so you can pass your ASE exam

the first time. This manual will ensure that you understand the Suspension and Steering task list and are fully prepared and confident to take your exam.

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## ASE TEST PREPARATION MANUAL - ELECTRONIC DIESEL ENGINE DIAGNOSIS SPECIALIST (L2)

*Delmar Cengage Learning*

© 2013, 224pp, Paperback, 9781133280460

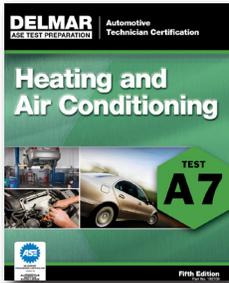
The first edition of DELMAR'S AUTOMOTIVE SERVICE EXCELLENCE (ASE) TEST PREPARATION MANUAL for the Medium/Heavy Duty Truck L2 Electronic Diesel Engine Diagnosis Specialist exam now contains even more content so you can pass your ASE exam the first time. This manual will ensure that you understand Electronic Diesel Engine Diagnosis Specialist task list and are fully prepared and confident to take your exam.

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## ASE TEST PREPARATION - A7 HEATING AND AIR CONDITIONING, 5E

Delmar, Cengage Learning

© 2012, 176pp, Paperback, 9781111127091



The fifth edition of Delmar's Automotive Service Excellence (ASE) Test Preparation Manual for the A7 HEATING AND AIR CONDITIONING certification exam contains an abundance of content designed to help you successfully pass your ASE

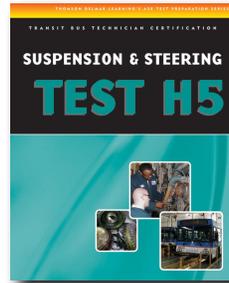
exam. This manual will ensure that you not only understand the task list and therefore the content your actual certification exam will be based upon, but also provides descriptions of the various types of questions on a typical ASE exam, as well as presents valuable test taking strategies enabling you to be fully prepared and confident on test day.

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## ASE TEST PREPARATION - TRANSIT BUS H5, SUSPENSION AND STEERING

Delmar, Cengage Learning

© 2009, 254pp, Paperback, 9781428340114



For the first time, there is a test preparation guide designed specifically to meet the requirements of the ASE certification exam for Transit Bus H5, Suspension and Steering. This exclusive new offering from Delmar Learning, ASE Test Preparation - Transit

Bus H5, Suspension and Steering, is based upon the newly released ASE task list for this exam, and pairs it with ASE-style practice questions. The end result is a thorough and relevant training regimen for anyone seeking to successfully master the H5 ASE certification exam.

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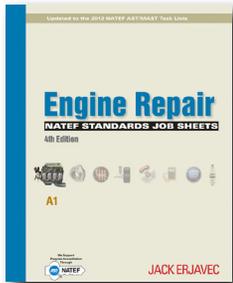
## AUTOMOTIVE SYSTEMS

### NATEF STANDARDS JOB SHEETS AREA A1, 4E

Jack Erjavec, Columbus State Community College (Emeritus);  
Ken Pickerill

© 2015, 240pp, Paperback, 9781111646974

### MindTap



All eight of the NATEF Job Sheets manuals have been thoughtfully designed to assist users gain valuable job preparedness skills and master specific diagnostic and repair procedures required for success as a professional automotive technician. Ideal for use

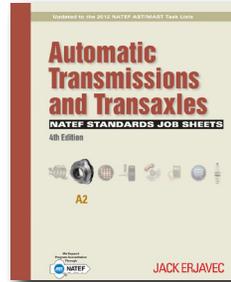
either as a stand-alone item or with any comprehensive or topic-specific automotive text, the entire series is aligned with the 2013 NATEF tasks and consists of individual books for each of the following areas: Engine Repair, Automatic Transmissions/Transaxles, Manual Drive Trains and Axles, Suspension and Steering, Brakes, Electricity/Electronics, Heating and Air Conditioning, and Engine Performance. Central to each manual are well-designed and easy-to-read job sheets, each of which contains specific performance-based objectives, lists of required tools and materials, safety precautions, plus step-by-step procedures to lead users to completion of shop activities. Also, each job sheet references all applicable NATEF Standards. As they work through each task, users are encouraged to conduct tests, record measurements, make observations, and employ critical-thinking skills in order to draw conclusions. Space is included for users to make notes concerning problems encountered while working, and for instructors to add comments and/or grades.

### NATEF STANDARDS JOB SHEETS AREA A2, 4E

Jack Erjavec, Columbus State Community College (Emeritus);  
Ken Pickerill

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### eBook



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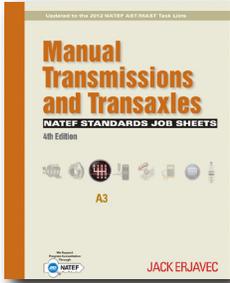
either as a stand-alone item or with any comprehensive or topic-specific automotive text, the entire series is aligned with the 2013 NATEF tasks and consists of individual books for each of the following areas: Engine Repair, Automatic Transmissions/Transaxles, Manual Drive Trains and Axles, Suspension and Steering, Brakes, Electricity/Electronics, Heating and Air Conditioning, and Engine Performance. Central to each manual are well-designed and easy-to-read job sheets, each of which contains specific performance-based objectives, lists of required tools and materials, safety precautions, plus step-by-step procedures to lead users to completion of shop activities. Also, each job sheet references all applicable NATEF Standards. As they work through each task, users are encouraged to conduct tests, record measurements, make observations, and employ critical-thinking skills in order to draw conclusions. Space is included for users to make notes concerning problems encountered while working, and for instructors to add comments and/or grades.

## NATEF STANDARDS JOB SHEETS AREA A3, 4E

Jack Erjavec, Columbus State Community College (Emeritus);  
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either as a stand-alone item or with any comprehensive or topic-specific automotive text, the entire series is aligned with the 2013 NATEF tasks and consists of individual books for each of the following areas: Engine Repair, Automatic Transmissions/Transaxles, Manual Drive Trains and Axles, Suspension and Steering, Brakes, Electricity/Electronics, Heating and Air Conditioning, and Engine Performance. Central to each manual are well-designed and easy-to-read job sheets, each of which contains specific performance-based objectives, lists of required tools and materials, safety precautions, plus step-by-step procedures to lead users to completion of shop activities. Also, each job sheet references all applicable NATEF Standards. As they work through each task, users are encouraged to conduct tests, record measurements, make observations, and employ critical-thinking skills in order to draw conclusions. Space is included for users to make notes concerning problems encountered while working, and for instructors to add comments and/or grades.

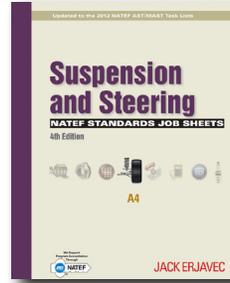
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## NATEF STANDARDS JOB SHEETS AREA A4, 4E

Jack Erjavec, Columbus State Community College (Emeritus);  
Ken Pickerill

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either as a stand-alone item or with any comprehensive or topic-specific automotive text, the entire series is aligned with the 2013 NATEF tasks and consists of individual books for each of the following areas: Engine Repair, Automatic Transmissions/Transaxles, Manual Drive Trains and Axles, Suspension and Steering, Brakes, Electricity/Electronics, Heating and Air Conditioning, and Engine Performance. Central to each manual are well-designed and easy-to-read job sheets, each of which contains specific performance-based objectives, lists of required tools and materials, safety precautions, plus step-by-step procedures to lead users to completion of shop activities. Also, each job sheet references all applicable NATEF Standards. As they work through each task, users are encouraged to conduct tests, record measurements, make observations, and employ critical-thinking skills in order to draw conclusions. Space is included for users to make notes concerning problems encountered while working, and for instructors to add comments and/or grades.

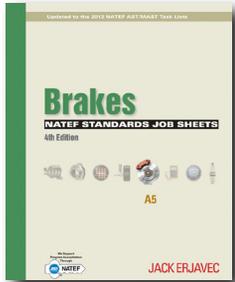
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## NATEF STANDARDS JOB SHEETS AREA A5, 4E

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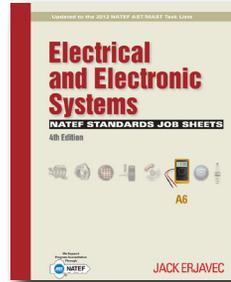
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## NATEF STANDARDS JOB SHEETS AREA A6, 4E

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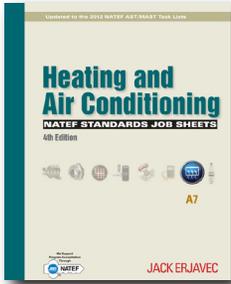
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## NATEF STANDARDS JOB SHEETS AREA A7, 4E

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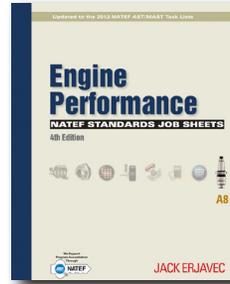
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## NATEF STANDARDS JOB SHEETS AREA A8, 4E

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either as a stand-alone item or with any comprehensive or topic-specific automotive text, the entire series is aligned with the 2013 NATEF tasks and consists of individual books for each of the following areas: Engine Repair, Automatic Transmissions/Transaxles, Manual Drive Trains and Axles, Suspension and Steering, Brakes, Electricity/Electronics, Heating and Air Conditioning, and Engine Performance. Central to each manual are well-designed and easy-to-read job sheets, each of which contains specific performance-based objectives, lists of required tools and materials, safety precautions, plus step-by-step procedures to lead users to completion of shop activities. Also, each job sheet references all applicable NATEF Standards. As they work through each task, users are encouraged to conduct tests, record measurements, make observations, and employ critical-thinking skills in order to draw conclusions. Space is included for users to make notes concerning problems encountered while working, and for instructors to add comments and/or grades.

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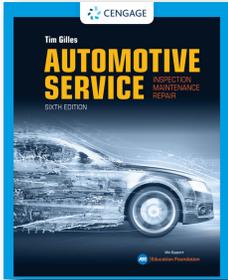
## AUTOMOTIVE SERVICE, 6E

Inspection, Maintenance, Repair

*Tim Gilles, Professor Emeritus, Santa Barbara City College,  
Santa Barbara, California*

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Prepare for an automotive career with **AUTOMOTIVE SERVICE: INSPECTION, MAINTENANCE, REPAIR!** Packed with everything you need to succeed, this best-selling book features clear explanations and high-quality illustrations to help you master automotive

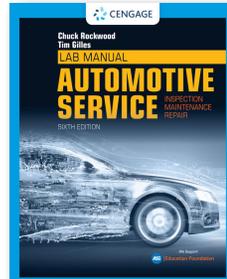
systems theory, plus step-by-step instructions for hands-on troubleshooting and repair procedures. Carefully aligned to the latest ASE Education Foundation requirements and standards, this comprehensive guide covers all eight major course areas of automotive technology, so you can develop the knowledge and skills to launch your career as a professional automotive technician.

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## LAB MANUAL FOR GILLES' AUTOMOTIVE SERVICE: INSPECTION, MAINTENANCE, REPAIR, 6E

*Chuck Rockwood; Tim Gilles, Professor Emeritus, Santa Barbara City College, Santa Barbara, California*

© 2020, Paperback, 9781337794046



The two-part Lab Manual contains activity sheets to help you master core concepts in the textbook. Lab Preparation Worksheets emphasize the practical, real-life skills you will need to service today's automobiles, while correlations to ASE

Education Foundation task lists will help you track your progress toward certification.

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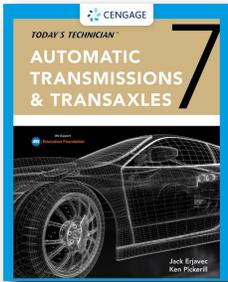
## TODAY'S TECHNICIAN, 7E

Automatic Transmissions and Transaxles Classroom Manual and Shop Manual

*Jack Erjavec, Columbus State Community College (Emeritus); Ken Pickerill*

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E d i t i o n .** This proven resource includes practical, easy-to-understand coverage of

topics aligned to the latest ASE Education Foundation standards for the MLR/AST/MAST program accreditation levels, including continuously variable transmissions (CVT), drivelines for front-wheel drive (FWD) and four-wheel drive (4WD) vehicles, and the latest information on today's high-tech electronic controls and automatic shifting devices. The Classroom Manual provides easy-to-understand coverage of every applicable ASE Education Foundation standard, while the Shop Manual includes Job Sheets to guide you through hands-on service and repair tasks. Written with the needs of current and aspiring technicians in mind, this trusted text will help you master the design, construction, troubleshooting techniques, and procedures necessary for a successful industry career.

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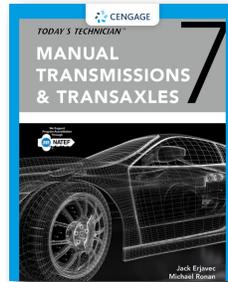
## TODAY'S TECHNICIAN, 7E

Manual Transmissions and Transaxles Classroom Manual and Shop Manual

*Jack Erjavec, Columbus State Community College (Emeritus); Mike Ronan, State University of New York, Alfred State College*

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### MindTap eBook



**Gear up for success—in the classroom and shop, in your future career — with TODAY'S TECHNICIAN: M A N U A L T R A N S M I S S I O N S & T R A N S A X L E S , S e v e n t h E d i t i o n .** This proven, practical guide includes easy-to-understand

information on a wide range of must-know topics, including transmission system and subsystem components, shop safety basics, dual-clutch systems, limited-slip differential designs, all-wheel drive systems, and six-speed transmissions. To help you master both essential theory and practical job skills, the text includes a Classroom Manual reviewing every topic for Manual Drive Train and Axles , plus a hands-on Shop Manual with full-color photo sequences and detailed job sheets, so you'll know exactly what to expect with performing service and repair tasks based on the latest MLR, AST, and MAST task lists.

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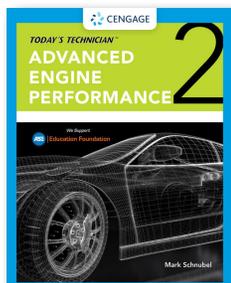
## TODAY'S TECHNICIAN, 2E

Advanced Engine Performance Classroom Manual and Shop Manual

Mark Schnubel, Naugatuck Valley Community College

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### MindTap eBook



Part of the popular Today's Technician series, this reader-friendly text provides an in-depth guide to advanced performance topics such as drivability, emissions testing, and engine diagnostics. In addition to a thorough review of on-board

diagnostic generation II (OBD II) continuous monitors and non-continuous monitors strategies, the text includes a chapter on emission control and evaporative systems, as well as detailed information on OBD II generic diagnostic trouble codes (DTC) identification and diagnosis and malfunction indicator light strategies. To help you gain essential knowledge while honing practical job skills, the text includes both a Classroom Manual and a hands-on Shop Manual. The Second Edition features new and updated material to help you prepare for professional success by mastering the latest technology and industry trends, including variable valve and camshaft timing designs, variable displacement and variable lift engine designs currently in production, and advanced on-board diagnostic scanners and digital storage oscilloscopes.

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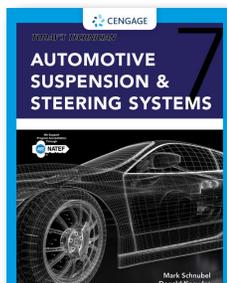
## TODAY'S TECHNICIAN, 7E

Automotive Suspension & Steering Classroom Manual and Shop Manual

Mark Schnubel, Naugatuck Valley Community College

© 2020, 1024pp, Spiral, 9781337567336

### MindTap eBook



Make the most of your time in both the classroom and the auto shop, and learn to diagnose and service automotive suspension and steering systems with confidence. This trusted text includes a dedicated Classroom Manual that introduces essential theory

and applications, plus a standalone Shop Manual focused on real-world symptoms, diagnostics, and repairs. With comprehensive coverage, accurate and up-to-date details, and abundant illustrations, this reader-friendly resource will help prepare you for success as an automotive technician or ASE certification. Now updated with extensive information on new and emerging technology and techniques—including hybrid and electric vehicles, tire plus sizing, and computer-controlled suspensions—the Seventh Edition also aligns with area A4 of the ASE Education Foundation 2017 accreditation model, including job sheets correlated to specific MLR, AST and MAST tasks.

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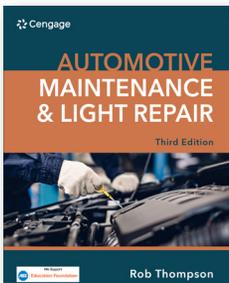
**NEW EDITION**

**AUTOMOTIVE MAINTENANCE & LIGHT REPAIR, 3E**

*Rob Thompson, Columbus State Community College*

© 2024, 864pp, Hardback, 9780357766620

**MindTap eBook**



Delivering complete coverage of ASE Education Foundation’s Maintenance & Light Repair (MLR) program standards, this accessible, practical resource features material spanning the entire MLR task list, as well as many supplemental tasks entry-

level technicians need to master. In addition to being thoroughly updated to align to the ASE Education Foundation 2022 Maintenance & Light Repair (MLR) program standards, the Third Edition features color-coded safety information for easy reference, new content on advanced drive assistance systems (ADAS) and updated layouts and imagery to make content more appealing for today’s visual learners. With an engaging writing style and abundant illustrations, this reader-friendly text makes even complex material easier to understand. Proven learning features are integrated into every chapter, including Word Walls highlighting key technical and industry terms and ASE review questions to help you prepare for professional certification exams. Giving you a solid grounding in both automotive competencies and academic and lifelong learning skills like math, science and communication, **AUTOMOTIVE MAINTENANCE & LIGHT REPAIR, Third Edition**, is the perfect choice to prepare you for classroom and career success.

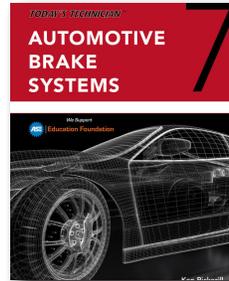
**TODAY’S TECHNICIAN, 7E**

Automotive Brake Systems, Classroom and Shop Manual Pre-Pack

*Ken Pickerill*

© 2019, Paperback, 9781337564526

**MindTap eBook**



This comprehensive resource includes everything you need to understand, diagnose, and repair today’s brake systems with confidence--and prepare for ASE certification and career success as an automotive technician. In addition to

thorough coverage, accurate and up-to-date details, and abundant illustrations, **TODAY’S TECHNICIAN: AUTOMOTIVE BRAKE SYSTEMS, CLASSROOM AND SHOP MANUAL PRE-PACK, Seventh Edition**, offers a uniquely convenient two-volume approach. The first volume is a Classroom Manual covering the theory and application of the total brake system, subsystem, and components. Volume two is a Shop Manual that explores real-world symptoms, diagnostics, and repairs, and is ideal for standalone use as a reference on the job. In addition to aligning with the ASE Education Foundation 2017 accreditation model, the Seventh Edition features job sheets correlated to specific MLR, AST and MAST tasks, and extensive information on new and emerging technology and techniques--including hybrid vehicles, brake by wire, and electric brakes.

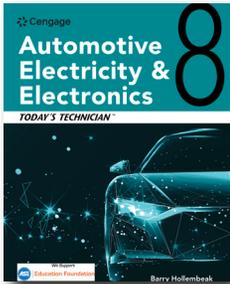
## NEW EDITION

# TODAY'S TECHNICIAN: AUTOMOTIVE ELECTRICITY AND ELECTRONICS, CLASSROOM AND SHOP MANUAL PACK, 8E

Barry Hollembeak

© 2024, 400pp, Spiral, 9780357766385

## MindTap eBook



Whether you're an aspiring automotive professional, preparing for ASE certification or already working in the field, TODAY'S TECHNICIAN: AUTOMOTIVE ELECTRICITY & ELECTRONICS, Eighth Edition, will equip you to confidently

understand, diagnose and repair electrical and electronic systems in today's automobiles. The text's unique two-volume approach helps you make the most of your time in both the classroom and the auto shop. The first volume (Classroom Manual) covers the theory and application of electricity, electronics and circuitry in modern automobiles, while the second (Shop Manual) focuses on real-world symptoms, diagnostics and repair information. In addition to comprehensive coverage, accurate and up-to-date technical information and hundreds of detailed, full-color illustrations and photographs, the Eighth Edition features extensive updates with information on new and emerging technologies and techniques. Highlights include coverage of telematic systems, LED and adaptive lighting, hybrid and electric vehicles, stop/start technology, Wi-Fi connectivity, Advanced Driver Assistance Systems (ADAS) and other modern accessory systems. The new edition also aligns to the 2022 ASE Education Foundation accreditation requirements and includes job sheets correlated to all MLR, AST and MAST tasks.

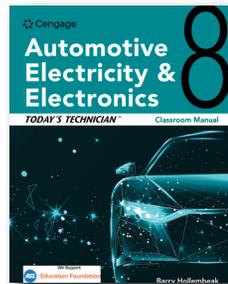
# TODAY'S TECHNICIAN: AUTOMOTIVE ELECTRICITY AND ELECTRONICS CLASSROOM MANUAL, 8E

Automotive Electricity and Electronics Classroom Manual

Barry Hollembeak

© 2024, Paperback, 9780357766392

## eBook



Designed to help you make the most of your classroom learning (while supporting a successful transition to the auto shop), the Classroom Manual for this unique two-volume text details the theory and application of electricity, electronics and circuitry in modern

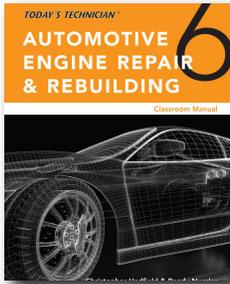
automobiles. Known for its comprehensive coverage, accurate and up-to-date technical information, and hundreds of detailed illustrations and vibrant photographs, the text is an ideal resource to prepare for success as an automotive technician or pursue ASE certification.

## TODAY'S TECHNICIAN: AUTOMOTIVE ENGINE REPAIR & REBUILDING, CLASSROOM MANUAL AND SHOP MANUAL, SPIRAL BOUND VERSION, 6E

Chris Hadfield; Randy Nussler, *New Market Skills Center*

© 2018, 1040pp, Paperback, 9781305958135

### MindTap eBook



TODAY'S TECHNICIAN: AUTOMOTIVE ENGINE REPAIR & REBUILDING, CLASSROOM MANUAL AND SHOP MANUAL, Sixth Edition, delivers the theory and skills you need to repair and service modern automotive engines as a professional technician,

along with proven preparation for the Automotive Service Excellence (ASE) certification exam. Using a logical, system-specific approach, the text covers engine construction and operation, intake and exhaust systems, and engine repair, as well as the basics of engine rebuilding. Drawing on decades of shop and classroom experience, the authors provide valuable, forward-looking industry insights on topics such as advances in hybrid technology, factors affecting engine performance, and the design and function of modern engine components. Long known for its technical accuracy and concise writing style, the Sixth Edition of this reader-friendly text includes extensive updates to reflect the latest ASE Education Foundation standards, new information on current industry trends and developments, additional drawings and photos, and a variety of electronic learning tools.

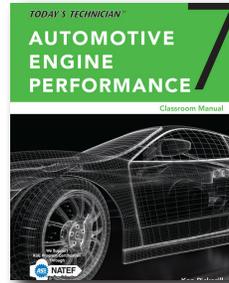
## TODAY'S TECHNICIAN, 7E

Automotive Engine Performance, Classroom and Shop Manuals, Spiral bound Version

Ken Pickerill

© 2018, 1184pp, Paperback, 9781305958289

### MindTap eBook



The Seventh Edition of TODAY'S TECHNICIAN: AUTOMOTIVE ENGINE PERFORMANCE is a comprehensive learning package designed to build automotive skills in both classroom and shop settings. Following current ASE Education Foundation

criteria, this two-manual set examines each of the major systems affecting engine performance and drivability—including intake and exhaust, sensors, computerized engine controls, fuel, ignition, and emissions. The Classroom Manual addresses system theory, while a coordinating Shop Manual covers tools, procedures, diagnostics, testing, and service. The new Seventh Edition features updates to cover the latest automotive technologies and take automotive technician training to new levels.

## TODAY'S TECHNICIAN, 2E

Advanced Automotive Electronic Systems, Classroom Manual and Shop Manual

Barry Hollembeak

© 2018, 464pp, Paperback, 9780357761106

### MindTap



TODAY'S TECHNICIAN: ADVANCED AUTOMOTIVE ELECTRONIC SYSTEMS, Second Edition, helps readers understand, diagnose, and repair the sophisticated electronic systems in today's automobiles. Bridging theory and practice, the text

provides an overview of important electronic systems and outlines real-world symptoms, diagnostics, and repair information. Known for its thorough coverage, accurate technical information, and detailed visuals, this resource prepares users for success on ASE certification exams or as an automotive technician. The Second Edition adds detailed coverage of network architecture and increased coverage of telematic systems, Wi-Fi connectivity, remote start, and stop/start technology. This edition is enhanced with full-color photography and illustrations. Text content aligns with the ASE Education Foundation 2017 accreditation model--including job sheets correlated to specific MLR, AST and MAST tasks.

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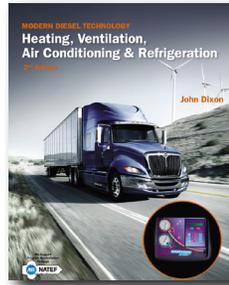
## MODERN DIESEL TECHNOLOGY, 2E

Heating, Ventilation, Air Conditioning & Refrigeration

John Dixon, Centennial College, Toronto

© 2014, 352pp, Paperback, 9781133716259

### eBook



Easy to read yet technically precise, MODERN DIESEL TECHNOLOGY: HEATING, VENTILATION, AIR CONDITIONING, AND REFRIGERATION, 2nd Edition is the text of choice for many of the country's best diesel technology programs! Detailing the

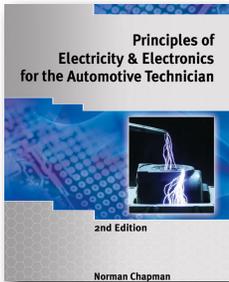
foundations of truck heating, air conditioning, engine cooling, and truck-trailer refrigeration, the book integrates modern technical terms with photos that clearly demonstrate typical, on-the-job tasks in logical sequence. Coverage includes an entire section on thermodynamics, as well as solid instruction on safety, equipment, components, troubleshooting, performance testing, maintenance, and even the history of HVAC/R in the diesel trucking industry. Enhanced with photos, drawings, and self-testing questions in each chapter, MODERN DIESEL TECHNOLOGY: HEATING, VENTILATION, AIR CONDITIONING, AND REFRIGERATION, 2nd Edition delivers the technical accuracy and depth of HVAC/R information you need for a rewarding career as a diesel technician.

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## PRINCIPLES OF ELECTRICITY & ELECTRONICS FOR THE AUTOMOTIVE TECHNICIAN, 2E

*Norm Chapman, South Puget Sound Community College*

© 2010, 608pp, Paperback, 9781428361218



Principles of Electricity & Electronics for the Automotive Technician, 2E thoroughly covers the basics of automotive electricity and electronics to fully prepare beginning technicians for more complex electrical concepts. Written by an ASE Master

Technician and teacher, the book draws readers in using a combination of basic theory, case studies, hands-on vehicle tasks and ASE-style review questions. The updated second edition includes expanded coverage of hybrid electrical vehicles and safety procedures, technological advances in electronically controlled vehicle accessories, and new troubleshooting techniques using cutting-edge equipment and procedures. Simple illustrations and wiring diagrams, along with straightforward explanations of how automotive electricity and electronics work, act together to make this an ideal introduction to electrical and electronics diagnostics and service.

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## AUTOMOTIVE TECHNICIAN TRAINING

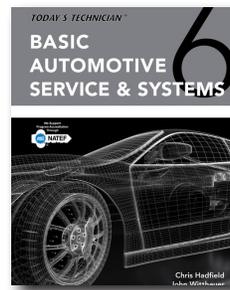
### TODAY'S TECHNICIAN, 6E

Basic Automotive Service & Systems Classroom Manual and Shop Manual

*Chris Hadfield; John Witthauer, Goodwill Easter Seals Automotive Training Program*

© 2021, 1008pp, Paperback, 9781337795661

### MindTap eBook



This trusted text provides a comprehensive, accessible overview of automotive systems to prepare you for all aspects of work in the field. BASIC AUTOMOTIVE SERVICE & SYSTEMS, Sixth Edition, includes a Classroom Manual that explores the operational

theory behind each automotive system, and a Shop Manual covering relevant diagnostic, testing, and repair procedures. Updated to align with Task Lists for the latest ASE Education Foundation requirements, the Sixth Edition covers emerging technologies such as hybrid vehicles and electronic engine controls, as well as current information on the global automotive industry and the role you can play within it as a professional technician. The authors assume no prior knowledge of automotive technology, so these clear and engaging resources provide an ideal introduction to both fundamental theory and its real-world applications in specific skills and maintenance procedures, preparing you for success in today's fast-paced, competitive work environment.

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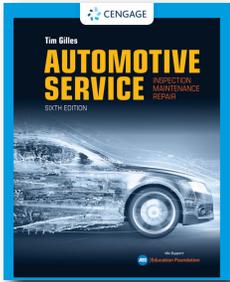
## AUTOMOTIVE SERVICE, 6E

Inspection, Maintenance, Repair

*Tim Gilles, Professor Emeritus, Santa Barbara City College,  
Santa Barbara, California*

© 2020, 1792pp, Hardback, 9781337794039

MindTap **eBook**



Prepare for an automotive career with **AUTOMOTIVE SERVICE: INSPECTION, MAINTENANCE, REPAIR!** Packed with everything you need to succeed, this best-selling book features clear explanations and high-quality illustrations to help you master automotive

systems theory, plus step-by-step instructions for hands-on troubleshooting and repair procedures. Carefully aligned to the latest ASE Education Foundation requirements and standards, this comprehensive guide covers all eight major course areas of automotive technology, so you can develop the knowledge and skills to launch your career as a professional automotive technician.

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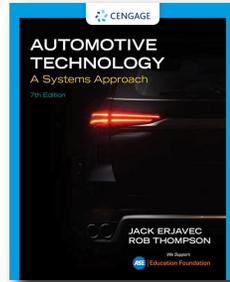
## AUTOMOTIVE TECHNOLOGY, 7E

A Systems Approach

*Jack Erjavec, Columbus State Community College (Emeritus);  
Rob Thompson, Columbus State Community College*

© 2020, 1728pp, Hardback, 9781337794213

MindTap **eBook**



**AUTOMOTIVE TECHNOLOGY: A SYSTEMS APPROACH** provides comprehensive coverage with updates to address the latest ASE Education Foundation requirements for Maintenance and Light Repair (MLR), Automotive

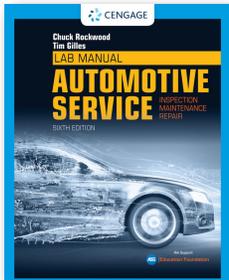
Service Technology (AST), and Master Service Technology (MAST) program accreditation levels. Thoroughly revised to provide accurate, current information on the latest technology, industry trends, and state-of-the-art tools and techniques, the Seventh Edition is an essential resource for building career ready students who want to succeed in the dynamic, rapidly evolving field of automotive service and repair.

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## LAB MANUAL FOR GILLES' AUTOMOTIVE SERVICE: INSPECTION, MAINTENANCE, REPAIR, 6E

Chuck Rockwood; Tim Gilles, Professor Emeritus, Santa Barbara City College, Santa Barbara, California

© 2020, Paperback, 9781337794046



The two-part Lab Manual contains activity sheets to help you master core concepts in the textbook. Lab Preparation Worksheets emphasize the practical, real-life skills you will need to service today's automobiles, while correlations to ASE

Education Foundation task lists will help you track your progress toward certification.

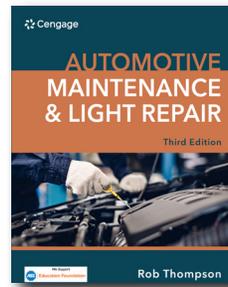
## NEW EDITION

## AUTOMOTIVE MAINTENANCE & LIGHT REPAIR, 3E

Rob Thompson, Columbus State Community College

© 2024, 864pp, Hardback, 9780357766620

## MindTap eBook



Delivering complete coverage of ASE Education Foundation's Maintenance & Light Repair (MLR) program standards, this accessible, practical resource features material spanning the entire MLR task list, as well as many supplemental tasks entry-

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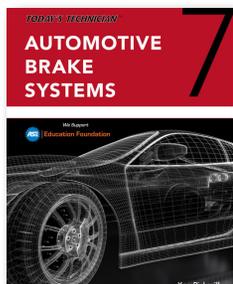
## TODAY'S TECHNICIAN, 7E

Automotive Brake Systems, Classroom and Shop Manual Pre-Pack

*Ken Pickerill*

© 2019, Paperback, 9781337564526

### MindTap eBook



This comprehensive resource includes everything you need to understand, diagnose, and repair today's brake systems with confidence--and prepare for ASE certification and career success as an automotive technician. In addition to

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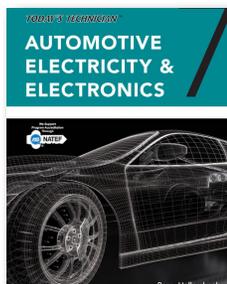
## TODAY'S TECHNICIAN, 7E

Automotive Electricity and Electronics, Classroom and Shop Manual Pack, Spiral bound Version

*Barry Hollembeck*

© 2019, 848pp, Paperback, 9781337618991

### MindTap eBook



Whether you're an aspiring automotive professional, preparing for ASE certification, or already working in the field, TODAY'S TECHNICIAN: AUTOMOTIVE ELECTRICITY & ELECTRONICS, Seventh Edition, will equip you to

confidently understand, diagnose, and repair electrical and electronic systems in today's automobiles. The text's unique two-volume approach helps you make the most of your time in both the classroom and the auto shop. The first volume (Classroom Manual) covers the theory and application of electricity, electronics, and circuitry in modern automobiles, while the second (Shop Manual) focuses on real-world symptoms, diagnostics, and repair information. In addition to comprehensive coverage, accurate and up-to-date technical information, and hundreds of detailed color illustrations and photographs, the Seventh Edition features extensive updates with information on new and emerging technologies and techniques. Highlights include coverage of telematic systems, LED and adaptive lighting, hybrid and electric vehicles, stop/start technology, lane departure warning, self-park systems, Wi-Fi connectivity, and other modern accessory systems. The new edition aligns to the 2017 ASE Education Foundation accreditation requirements and includes job sheets correlated to all MLR, AST, and MAST tasks.

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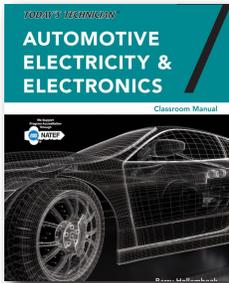
## TODAY'S TECHNICIAN, 7E

Automotive Electricity and Electronics Classroom Manual

Barry Hollembeck

© 2019, Paperback, 9781337619004

### eBook



The Classroom Manual details the theory and application of electricity, electronics, and circuitry in modern automobiles.

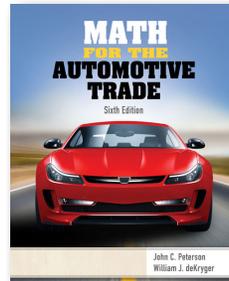
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## MATH FOR THE AUTOMOTIVE TRADE, 6E

John C. Peterson, Chattanooga State Technical Community College; William deKryger

© 2018, 368pp, Paperback, 9781337101813

### MindTap eBook



MATH FOR THE AUTOMOTIVE TRADE, 6th Edition, is the easy-to-understand worktext that delivers the real-world math you need for automotive repair careers—and kicks the rest to the curb. Using real manufacturer specs, completing automotive

repair orders, and checking your results against industry references right in the appendices, you'll practice the calculations that automotive repair technicians do on the job every day. Written by seasoned automotive pros, MATH FOR THE AUTOMOTIVE TRADE starts with the math basics, greasing the wheels before moving on to the practice exercises. Even better, this book includes the latest, easy-to-understand information about taxes, finances, discounts, and profits, to simplify business math, and move you a step closer to a career in management or your own automotive repair shop.

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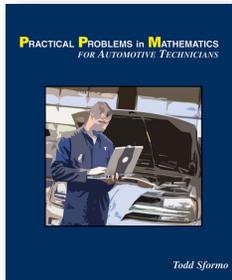
## PRACTICAL PROBLEMS IN MATHEMATICS, 7E

For Automotive Technicians

Todd Sformo, *Illisagvik College*

© 2009, 288pp, Paperback, 9781428335240

### eBook



Comprehensive and easy to use, the revised and updated seventh edition covers practical math problems that automotive technicians will face on the job. The easy-to-read and well organized chapters of Practical Problems in Mathematics for Automotive

Technicians, Seventh Edition feature step-by-step instructions, diagrams, charts, and examples that facilitate the problem-solving process while reinforcing key concepts. The presentation builds from the basics of whole-number operations to cover percentages, linear measurement, ratios, and the use of more advanced formulas. With a special section on graphs, scale reading of test meters, and invoices found in the workplace, this text is tailor-made for students in any automotive course of study!

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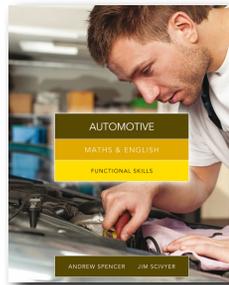
## BASIC TECHNICIAN TRAINING

### MATHS & ENGLISH FOR AUTOMOTIVE Functional Skills

Andrew Spencer, *teaches secondary education in New South Wales and South Australia.*; Jim Scivyer, *College of North West London*

© 2013, 64pp, Paperback, 9781408077382

### eBook



This write-in workbook is an invaluable resource to help learners' improve their Maths and English skills and help prepare for Level 1 and Level 2 Functional Skills exams. The workbook format enables learners to practice and improve their maths and English skills

and the real-life questions, exercises and scenarios are all written with an automotive context to help learners find essential Maths and English theory understandable, engaging and achievable. This workbook is an invaluable resource to support Maths and English learning in the classroom, at work and for personal study at home.

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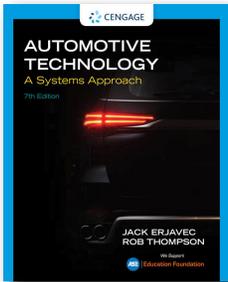
## AUTOMOTIVE TECHNOLOGY, 7E

A Systems Approach

Jack Erjavec, *Columbus State Community College (Emeritus);*  
Rob Thompson, *Columbus State Community College*

© 2020, 1728pp, Hardback, 9781337794213

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## AUTOMOTIVE MAINTENANCE & LIGHT REPAIR, 2E

Rob Thompson, *Columbus State Community College*

© 2019, 720pp, Hardback, 9781337564397

### MindTap eBook



Delivering complete coverage of ASE Education Foundation's Maintenance & Light Repair (MLR) program standards, this accessible, practical resource features material spanning the entire MLR task list, as well as many supplemental tasks entry-

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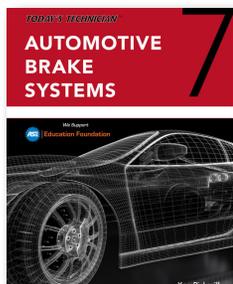
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Automotive Brake Systems, Classroom and Shop Manual Pre-Pack

Ken Pickerill

© 2019, Paperback, 9781337564526

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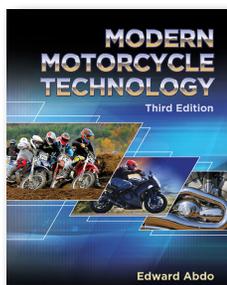
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## MODERN MOTORCYCLE TECHNOLOGY, 3E

Edward Abdo

© 2017, 544pp, Paperback, 9780357671108

### eBook



MODERN MOTORCYCLE TECHNOLOGY, Third Edition, provides an in-depth, visually rich guide to the internal and external workings of today's motorcycles. The book begins with an overview of motorcycle technology, including the history of the

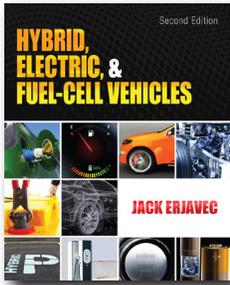
motorcycle and the current state of the industry. Coverage then progresses to safety measures, engine operation, internal combustion engines (two-stroke and four-stroke), electrical fundamentals, motorcycle maintenance, and troubleshooting. Thoroughly updated, the Third Edition includes the latest motorcycle models and technology from today's top manufacturers, as well as additional material on topics such as fuel injection, suspension systems, and electronics. The text is accompanied by a hands-on Student Skill Guide. Now better than ever, this trusted guide is ideal for anyone seeking the knowledge and skills to succeed in today's motorcycle technology field.

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## HYBRID, ELECTRIC, AND FUEL-CELL VEHICLES, 2E

Jack Erjavec, Columbus State Community College (Emeritus)

© 2013, 400pp, Paperback, 9780840023957



HYBRID, ELECTRIC AND FUEL-CELL VEHICLES, Second Edition, covers the cutting-edge technology and technology that are revolutionizing today's automotive industry. Author Jack Erjavec combines in-depth industry expertise with an engaging, reader-friendly style, providing extensive detail on new and upcoming electric vehicles, including hybrids in production today and the fuel cell vehicles of tomorrow. Expansive coverage ranges from basic theory related to vehicle construction, electricity, batteries, and motors, to the political and social impact of these high-profile vehicles. In addition to up-to-date, highly accurate technical information on vehicles available today—including service procedures and safe shop practices—the text provides an informed look into the future with material on vehicles currently under development.

## COLLISION REPAIR

### AUTO BODY REPAIR TECHNOLOGY, 7E

James E. Duffy, Indiana State University, President, Beneficial Books and Video; Jonathan Beaty, Tennessee College of Applied Technology Livingston, Instructor, Collision Repair Technology

© 2021, 1088pp, Hardback, 9780357139790

### MindTap eBook



AUTO BODY REPAIR TECHNOLOGY, Seventh Edition, features extensive new and updated material reflecting the latest automotive technology and current industry best practices. In addition to incorporating current ASE Education Foundation

Collision Repair and Refinish Program Standards and Task Lists, this market-leading text provides detailed information on working with hybrid and electric vehicles, using environmentally friendly water-based paints, resistance spot and nitrogen plastic welding and other cutting-edge methods and materials. Celebrated for its clear, reader-friendly explanations and detailed, accurate information, this proven guide also includes abundant full-color photos and illustrations--many new or updated for the Seventh Edition--to make even complex concepts easier to understand and apply. Available supplements include a tech manual with shop assignments and newly updated and expanded job sheets, as well as interactive online resources ideal for today's learners. Providing comprehensive coverage of collision repair--from initial evaluation and estimating, to structural and mechanical repairs, to repainting and refinishing--this trusted guide will help you quickly and confidently learn the skills and procedures you need to succeed as a professional automotive technician.

## TECH MANUAL FOR UHRINA/DUFFY/ BEATY'S AUTO BODY REPAIR TECHNOLOGY, 7E

*James E. Duffy, Indiana State University, President, Beneficial Books and Video; Jonathan Beaty, Tennessee College of Applied Technology Livingston, Instructor, Collision Repair Technology; Jonathan Beaty, Tennessee College of Applied Technology Livingston, Instructor, Collision Repair Technology*

© 2021, Paperback, 9780357139806



The Tech Manual is designed to help readers apply what they learn from chapter content through hands-on activity in the shop.

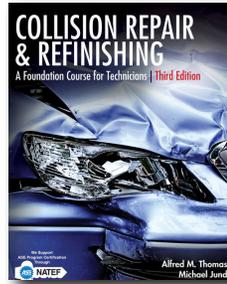
## COLLISION REPAIR AND REFINISHING, 3E

A Foundation Course for Technicians

*Alfred Thomas, Pennsylvania College of Technology; Michael Jund, Eastern Iowa Community College*

© 2018, 1072pp, Hardback, 9781305949942

MindTap eBook



This trusted, reader-friendly text provides you with a thorough guide to all major areas of collision repair and refinishing as outlined by ASE Education Foundation. **COLLISION REPAIR AND REFINISHING: A FOUNDATION COURSE FOR TECHNICIANS, Third**

**Edition**, covers structural and non-structural analysis and damage repair, welding, painting and refinishing, paint chemistry, sacrificial coatings for corrosion resistance, mechanical and electrical systems, and more. A chapter on the expanded use of aluminum for domestic vehicle manufacture explores this important trend, as well as basic repair principles related to it. An engaging writing style, logical presentation of topics, and illustrations featuring current equipment and realistic applications make this comprehensive text a perfect choice for students with little or no prior exposure to collision repair.

## MEDIUM/HEAVY DUTY TRUCK

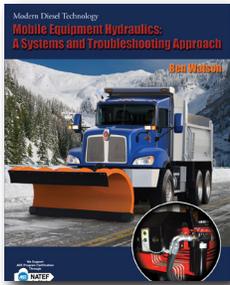
### MOBILE EQUIPMENT HYDRAULICS

A Systems and Troubleshooting Approach

Ben Watson

© 2011, 256pp, Paperback, 9781418080433

#### eBook



Designed for the required course on hydraulics found in diesel technology and heavy equipment programs, **MOBILE EQUIPMENT HYDRAULICS: A SYSTEMS AND TROUBLESHOOTING APPROACH**, takes a practical approach to the

understanding of fluid power / hydraulic systems. Instead of concentrating on the design issues of fluid power systems this book approaches hydraulics more like a technician would to approach a system that requires maintenance or troubleshooting. Nearly all aspiring diesel technicians receive training in this subject, which is one of seven areas of study recognized by ASE Education Foundation in diesel technology. Coverage includes a study of terminology, industrial standards, symbols and basic circuitry design as related to fluid power. Examples are drawn from actual equipment that is relevant to the program of study, whether it be heavy truck, earth-moving, or agricultural equipment.

## SERVICE MANAGEMENT

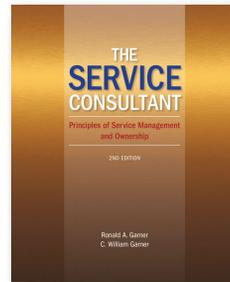
### THE SERVICE CONSULTANT, 2E

Principles of Service Management and Ownership

Ronald A. Garner, *Pennsylvania College of Technology*; C. William Garner, *Rutgers University*

© 2014, 416pp, Paperback, 9780357671269

#### eBook



Designed to prepare you for a successful career as an automotive service consultant, **THE SERVICE CONSULTANT: PRINCIPLES OF SERVICE MANAGEMENT AND OWNERSHIP**, Second Edition teaches you how to maximize profits and

improve customer satisfaction in an automotive business. With coverage of task-oriented procedures for day-to-day operations as well as communications, relations, supervision, and customer delivery, this practical text provides you with an in-depth examination of the multi-faceted responsibilities of an automotive service consultant. In addition, the text content correlates to the ASE tasks for Automotive Service Consultant (C1) in order to help you better prepare for the ASE certification exam. Furthermore, the second edition contains updated examples, activities, technology, case studies, and visual aids so that you are exposed to the most up-to-date information in the field.

## TECHNICIAN TRAINING

### VEHICLE MAINTENANCE AND REPAIR LEVEL 1, 2E

*Patrick Hamilton, Chairman of the IMI Members Association  
Norfolk; John Rooke CertEd, MIMI, Mifl; Julian Brown*

© 2012, 288pp, Paperback, 9781408064221

#### eBook



This new edition of the highly successful Vehicle Maintenance and Repair Level 1 workbook provides complete coverage of the QCF National Occupational Standards at Level 1 as set by the IMI and is in-line with VRQ and NVQ qualifications.

Learners will be inspired by

the full-colour diagrams and images illustrating key techniques and the Tip Boxes, weblinks, activities and questions will ensure learners have full understanding of all the essential information. This easy to use, easy to follow workbook ensures learners have all the theoretical and practice knowledge in preparation for further study or the world of work.

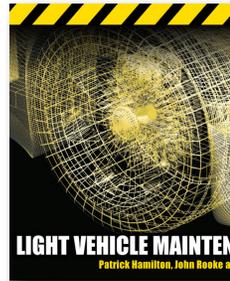
### LIGHT VEHICLE MAINTENANCE AND REPAIR LEVEL 2, 2E

Soft Bound Version

*Patrick Hamilton, Chairman of the IMI Members Association  
Norfolk; John Rooke CertEd, MIMI, Mifl; Robert Sharman,  
Sector Skills Council*

© 2011, 320pp, Paperback, 9781408057490

#### eBook



This new edition of the highly successful Light Vehicle Maintenance and Repair Level 2 workbook provides complete coverage of the National Occupational Standards at Level 2 as set by the IMI and has been reviewed by Roy Brooks, the highly acclaimed author

of the first edition. The easy to use, easy to follow format makes this the perfect companion for the course, for use in class and while carrying out practical tasks. Learners will be inspired by the full-colour diagrams and images illustrating key techniques and the Tip Boxes, weblinks, activities and questions will ensure learners have full understanding of all the essential information.

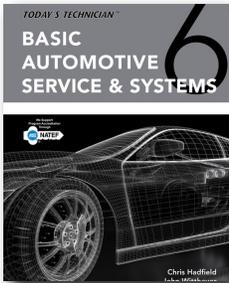
## TODAY'S TECHNICIAN, 6E

Basic Automotive Service & Systems Classroom Manual and Shop Manual

*Chris Hadfield; John Witthauer, Goodwill Easter Seals Automotive Training Program*

© 2021, 1008pp, Paperback, 9781337795661

### MindTap eBook



This trusted text provides a comprehensive, accessible overview of automotive systems to prepare you for all aspects of work in the field. **BASIC AUTOMOTIVE SERVICE & SYSTEMS**, Sixth Edition, includes a Classroom Manual that explores the operational

theory behind each automotive system, and a Shop Manual covering relevant diagnostic, testing, and repair procedures. Updated to align with Task Lists for the latest ASE Education Foundation requirements, the Sixth Edition covers emerging technologies such as hybrid vehicles and electronic engine controls, as well as current information on the global automotive industry and the role you can play within it as a professional technician. The authors assume no prior knowledge of automotive technology, so these clear and engaging resources provide an ideal introduction to both fundamental theory and its real-world applications in specific skills and maintenance procedures, preparing you for success in today's fast-paced, competitive work environment.

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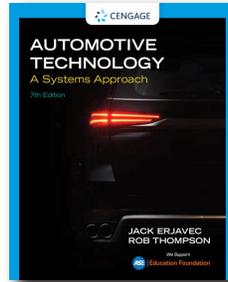
## AUTOMOTIVE TECHNOLOGY, 7E

A Systems Approach

*Jack Erjavec, Columbus State Community College (Emeritus); Rob Thompson, Columbus State Community College*

© 2020, 1728pp, Hardback, 9781337794213

### MindTap eBook



**AUTOMOTIVE TECHNOLOGY: A SYSTEMS APPROACH** provides comprehensive coverage with updates to address the latest ASE Education Foundation requirements for Maintenance and Light Repair (MLR), Automotive

Service Technology (AST), and Master Service Technology (MAST) program accreditation levels. Thoroughly revised to provide accurate, current information on the latest technology, industry trends, and state-of-the-art tools and techniques, the Seventh Edition is an essential resource for building career ready students who want to succeed in the dynamic, rapidly evolving field of automotive service and repair.

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## UNDERCAR SYSTEMS

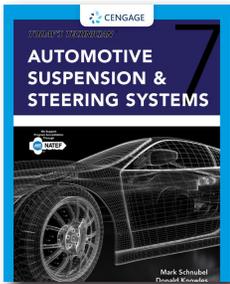
### TODAY'S TECHNICIAN, 7E

Automotive Suspension & Steering Classroom Manual and Shop Manual

Mark Schnubel, *Naugatuck Valley Community College*

© 2020, 1024pp, Spiral, 9781337567336

### MindTap eBook



Make the most of your time in both the classroom and the auto shop, and learn to diagnose and service automotive suspension and steering systems with confidence. This trusted text includes a dedicated Classroom Manual that introduces essential theory

and applications, plus a standalone Shop Manual focused on real-world symptoms, diagnostics, and repairs. With comprehensive coverage, accurate and up-to-date details, and abundant illustrations, this reader-friendly resource will help prepare you for success as an automotive technician or ASE certification. Now updated with extensive information on new and emerging technology and techniques—including hybrid and electric vehicles, tire plus sizing, and computer-controlled suspensions—the Seventh Edition also aligns with area A4 of the ASE Education Foundation 2017 accreditation model, including job sheets correlated to specific MLR, AST and MAST tasks.

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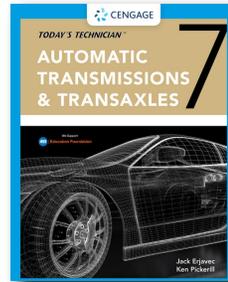
### TODAY'S TECHNICIAN, 7E

Automatic Transmissions and Transaxles Classroom Manual and Shop Manual

Jack Erjavec, *Columbus State Community College (Emeritus);*  
Ken Pickerill

© 2020, 1040pp, Spiral, 9781337792158

### MindTap eBook



TECHNICIAN :  
A U T O M A T I C  
T R A N S A X L E S  
CLASSROOM MANUAL  
AND SHOP MANUAL,  
Seventh Edition. This  
proven resource includes  
practical, easy-to-  
understand coverage of

topics aligned to the latest ASE Education Foundation standards for the MLR/AST/MAST program accreditation levels, including continuously variable transmissions (CVT), drivelines for front-wheel drive (FWD) and four-wheel drive (4WD) vehicles, and the latest information on today's high-tech electronic controls and automatic shifting devices. The Classroom Manual provides easy-to-understand coverage of every applicable ASE Education Foundation standard, while the Shop Manual includes Job Sheets to guide you through hands-on service and repair tasks. Written with the needs of current and aspiring technicians in mind, this trusted text will help you master the design, construction, troubleshooting techniques, and procedures necessary for a successful industry career.

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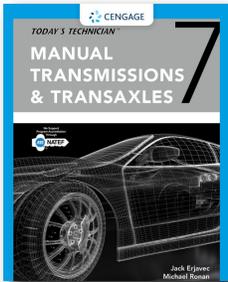
## TODAY'S TECHNICIAN, 7E

Manual Transmissions and Transaxles Classroom Manual and Shop Manual

*Jack Erjavec, Columbus State Community College (Emeritus);  
Mike Ronan, State University of New York, Alfred State College*

© 2020, 928pp, Paperback, 9781337795456

### MindTap eBook



Gear up for success—in the classroom and shop, in your future career — with TODAY'S TECHNICIAN: M A N U A L TRANSMISSIONS & TRANSAXLES, Seventh Edition. This proven, practical guide includes easy-to-understand

information on a wide range of must-know topics, including transmission system and subsystem components, shop safety basics, dual-clutch systems, limited-slip differential designs, all-wheel drive systems, and six-speed transmissions. To help you master both essential theory and practical job skills, the text includes a Classroom Manual reviewing every topic for Manual Drive Train and Axles , plus a hands-on Shop Manual with full-color photo sequences and detailed job sheets, so you'll know exactly what to expect with performing service and repair tasks based on the latest MLR, AST, and MAST task lists.

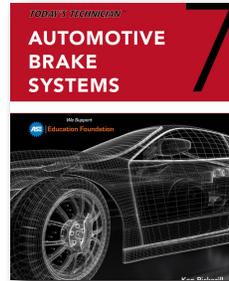
## TODAY'S TECHNICIAN, 7E

Automotive Brake Systems, Classroom and Shop Manual Pre-Pack

*Ken Pickerill*

© 2019, Paperback, 9781337564526

### MindTap eBook



This comprehensive resource includes everything you need to understand, diagnose, and repair today's brake systems with confidence--and prepare for ASE certification and career success as an automotive technician. In addition to

thorough coverage, accurate and up-to-date details, and abundant illustrations, TODAY'S TECHNICIAN: AUTOMOTIVE BRAKE SYSTEMS, CLASSROOM AND SHOP MANUAL PRE-PACK, Seventh Edition, offers a uniquely convenient two-volume approach. The first volume is a Classroom Manual covering the theory and application of the total brake system, subsystem, and components. Volume two is a Shop Manual that explores real-world symptoms, diagnostics, and repairs, and is ideal for standalone use as a reference on the job. In addition to aligning with the ASE Education Foundation 2017 accreditation model, the Seventh Edition features job sheets correlated to specific MLR, AST and MAST tasks, and extensive information on new and emerging technology and techniques--including hybrid vehicles, brake by wire, and electric brakes.

## UNDERHOOD SYSTEMS

### COMPUTERIZED ENGINE CONTROLS, 11E

Steve V. Hatch, *Lincoln College of Technology, Denver*

© 2021, 600pp, Paperback, 9780357358832

#### MindTap eBook



With thorough coverage of both fundamental electrical concepts and current automotive electronic systems, **COMPUTERIZED ENGINE CONTROLS, Eleventh Edition**, equips you with the essential knowledge you need to successfully diagnose and

repair modern automotive systems. Reflecting the latest technological advances from the field, the Eleventh Edition offers updated and expanded coverage of diagnostic concepts, equipment, and approaches used by today's professionals. All photos and illustrations are now printed in full, vibrant color, making it easier for today's visual learners to engage with the material and connect chapter concepts to real-world applications. Drawing on abundant, firsthand industry experience, the author provides in-depth insights into cutting-edge topics such as hybrid and fuel cell vehicles, automotive multiplexing systems, and advanced driver assist systems. In addition, key concepts are reinforced with ASE-style end-of-chapter questions to help prepare you for certification and career success.

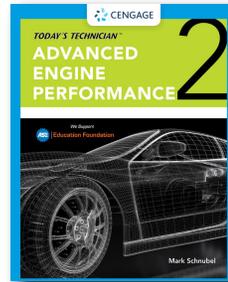
### TODAY'S TECHNICIAN, 2E

Advanced Engine Performance Classroom Manual and Shop Manual

Mark Schnubel, *Naugatuck Valley Community College*

© 2020, 464pp, Paperback, 9780357125830

#### MindTap eBook



Part of the popular Today's Technician series, this reader-friendly text provides an in-depth guide to advanced performance topics such as drivability, emissions testing, and engine diagnostics. In addition to a thorough review of on-board

diagnostic generation II (OBD II) continuous monitors and non-continuous monitors strategies, the text includes a chapter on emission control and evaporative systems, as well as detailed information on OBD II generic diagnostic trouble codes (DTC) identification and diagnosis and malfunction indicator light strategies. To help you gain essential knowledge while honing practical job skills, the text includes both a Classroom Manual and a hands-on Shop Manual. The Second Edition features new and updated material to help you prepare for professional success by mastering the latest technology and industry trends, including variable valve and camshaft timing designs, variable displacement and variable lift engine designs currently in production, and advanced on-board diagnostic scanners and digital storage oscilloscopes.

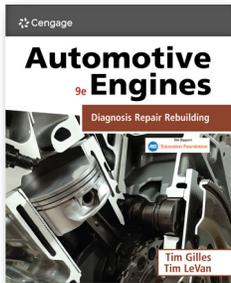
**NEW EDITION**

**AUTOMOTIVE ENGINES: DIAGNOSIS, REPAIR, AND REBUILDING, 9E**

*Tim Gilles, Professor Emeritus, Santa Barbara City College; Tim LeVan, University of Northwestern Ohio*

© 2024, 752pp, Paperback, 9780357766248

**eBook**



Gain the technical expertise, practical skills and industry knowledge you need for career success! **AUTOMOTIVE ENGINES: DIAGNOSIS, REPAIR, AND REBUILDING, Ninth Edition**, features comprehensive coverage of the theory of operation,

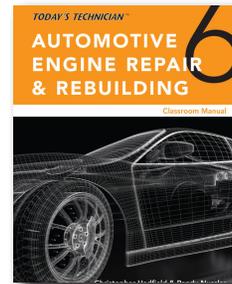
diagnosis, repair and rebuilding of automotive engines. Written by veteran instructors with firsthand experience as certified technicians and machinists, the text focuses on universal repair techniques and case histories based on real-world scenarios you are likely to see in the field. Now updated with new case histories, additional full-color images and information on the latest trends, tools and technology—including hybrid engines and high-performance components—this trusted text is the ideal resource to prepare you for professional success.

**TODAY'S TECHNICIAN: AUTOMOTIVE ENGINE REPAIR & REBUILDING, CLASSROOM MANUAL AND SHOP MANUAL, SPIRAL BOUND VERSION, 6E**

*Chris Hadfield; Randy Nussler, New Market Skills Center*

© 2018, 1040pp, Paperback, 9781305958135

**MindTap eBook**



**TODAY'S TECHNICIAN: AUTOMOTIVE ENGINE REPAIR & REBUILDING, CLASSROOM MANUAL AND SHOP MANUAL, Sixth Edition**, delivers the theory and skills you need to repair and service modern automotive engines as a professional technician,

along with proven preparation for the Automotive Service Excellence (ASE) certification exam. Using a logical, system-specific approach, the text covers engine construction and operation, intake and exhaust systems, and engine repair, as well as the basics of engine rebuilding. Drawing on decades of shop and classroom experience, the authors provide valuable, forward-looking industry insights on topics such as advances in hybrid technology, factors affecting engine performance, and the design and function of modern engine components. Long known for its technical accuracy and concise writing style, the Sixth Edition of this reader-friendly text includes extensive updates to reflect the latest ASE Education Foundation standards, new information on current industry trends and developments, additional drawings and photos, and a variety of electronic learning tools.

# AUTOMOTIVE & TRUCK TECHNOLOGY

## ASE PREPARATION AND NATEF CERTIFICATION

### ASE TEST PREP- T8 PREVENTIVE MAINTENANCE, 5E

*Delmar, Cengage Learning*

© 2013, 256pp, Paperback, 9781111129040

#### eBook



The fifth edition of DELMAR'S AUTOMOTIVE SERVICE EXCELLENCE ( A S E ) T E S T PREPARATION MANUAL for the Medium/Heavy Duty Truck T8 Preventive Maintenance exam now contains even more content so you can pass your ASE

exam the first time. This manual will ensure that you understand the Preventive Maintenance task list and are fully prepared and confident to take your exam.

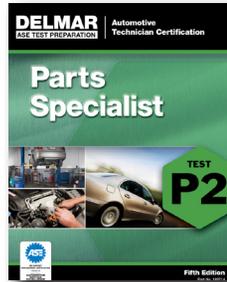
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### ASE TEST PREPARATION - P2 PARTS SPECIALIST, 5E

*Delmar, Cengage Learning*

© 2013, 224pp, Paperback, 9781111127145

#### eBook



The fifth edition of Delmar's Automotive Service Excellence (ASE) Test Preparation Manual for the P2 PARTS SPECIALIST certification exam contains an abundance of content designed to help you successfully pass your ASE exam. This manual will

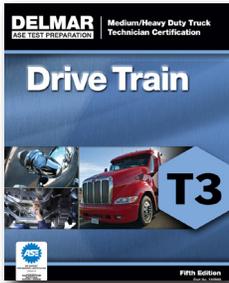
ensure that you not only understand the task list and therefore the content your actual certification exam will be based upon, but also provides descriptions of the various types of questions on a typical ASE exam, as well as presents valuable test taking strategies enabling you to be fully prepared and confident on test day.

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## ASE TEST PREPARATION - T3 DRIVE TRAIN, 5E

*Delmar, Cengage Learning*

© 2013, 176pp, Paperback, 9781111128999



The fifth edition of DELMAR'S AUTOMOTIVE SERVICE EXCELLENCE (ASE) TEST PREPARATION MANUAL for the Medium/Heavy Duty Truck T3 Drive Train exam now contains even more content so you can pass your ASE exam the first

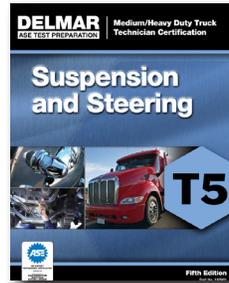
time. This manual will ensure that you understand the Drive Train task list and are fully prepared and confident to take your exam.

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## ASE TEST PREPARATION - T5 SUSPENSION AND STEERING, 5E

*Delmar, Cengage Learning*

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The fifth edition of DELMAR'S AUTOMOTIVE SERVICE EXCELLENCE (ASE) TEST PREPARATION MANUAL for the Medium/Heavy Duty Truck T5 Suspension and Steering exam now contains even more content so you can pass your ASE exam

the first time. This manual will ensure that you understand the Suspension and Steering task list and are fully prepared and confident to take your exam.

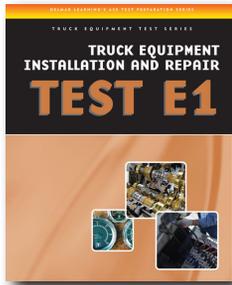
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## ASE TEST PREPARATION - TRUCK EQUIPMENT TEST SERIES

Truck Equipment Installation and Repair, Test E1

*Delmar, Cengage Learning*

© 2013, 254pp, Paperback, 9781435439351



Start an ASE training regimen that is focused, thorough, and will prepare you for success, using this new test preparation guide from Delmar Learning. Concentrating on the very latest truck equipment installation and repair task list released by the ASE,

this book provides the tools readers need to get ready for the certification exam. It begins with a history of the ASE and progresses to include guidelines, techniques, and strategies for taking and passing ASE certification exams. An overview of the task list follows, detailing the most recent procedures used to properly install, diagnose, service, and repair truck equipment and related support systems. At the core of the book's training methods are the ASE-style practice questions and answer rationales, which allow readers to apply their knowledge and practice putting it to use in a format that mimics the certification testing environment.

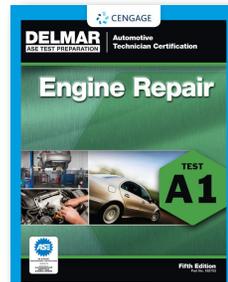
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## ASE TEST PREPARATION - A1 ENGINE REPAIR, 5E

*Delmar*

© 2012, 176pp, Paperback, 9781111127039

### eBook



The fifth edition of Delmar's Automotive Service Excellence (ASE) Test Preparation Manual for the A1 ENGINE REPAIR certification exam contains an abundance of content designed to help you successfully pass your ASE exam. This manual will

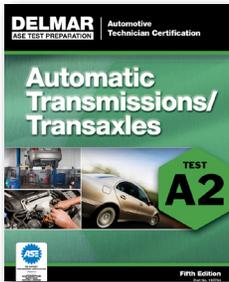
ensure that you not only understand the task list and therefore the content your actual certification exam will be based upon, but also provides descriptions of the various types of questions on a typical ASE exam, as well as presents valuable test taking strategies enabling you to be fully prepared and confident on test day.

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## ASE TEST PREPARATION - A2 AUTOMATIC TRANSMISSIONS AND TRANSAXLES, 5E

Delmar

© 2012, 176pp, Paperback, 9781111127046



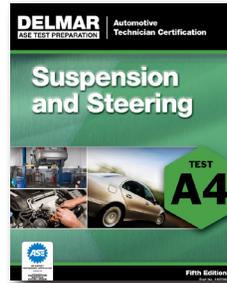
The fifth edition of Delmar's Automotive Service Excellence (ASE) Test Preparation Manual for the A2 AUTOMATIC TRANSMISSIONS AND TRANSAXLES certification exam contains an abundance of content designed to help you successfully pass your ASE exam. This manual will ensure that you not only understand the task list and therefore the content your actual certification exam will be based upon, but also provides descriptions of the various types of questions on a typical ASE exam, as well as presents valuable test taking strategies enabling you to be fully prepared and confident on test day.

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## ASE TEST PREPARATION - A4 SUSPENSION AND STEERING, 5E

Delmar

© 2012, 176pp, Paperback, 9781111127060



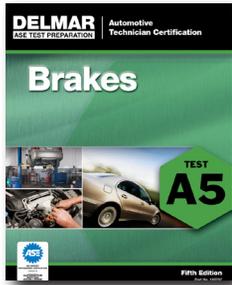
The fifth edition of Delmar's Automotive Service Excellence (ASE) Test Preparation Manual for the A4 SUSPENSION AND STEERING certification exam contains an abundance of content designed to help you successfully pass your ASE exam. This manual will ensure that you not only understand the task list and therefore the content your actual certification exam will be based upon, but also provides descriptions of the various types of questions on a typical ASE exam, as well as presents valuable test taking strategies enabling you to be fully prepared and confident on test day.

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## ASE TEST PREPARATION - A5 BRAKES, 5E

Delmar

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The fifth edition of Delmar's Automotive Service Excellence (ASE) Test Preparation Manual for the A5 BRAKES certification exam contains an abundance of content designed to help you successfully pass your ASE exam. This manual will

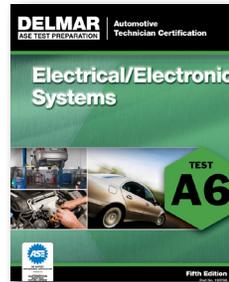
ensure that you not only understand the task list and therefore the content your actual certification exam will be based upon, but also provides descriptions of the various types of questions on a typical ASE exam, as well as presents valuable test taking strategies enabling you to be fully prepared and confident on test day.

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## ASE TEST PREPARATION - A6 ELECTRICAL/ELECTRONIC SYSTEMS, 5E

Delmar

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The fifth edition of Delmar's Automotive Service Excellence (ASE) Test Preparation Manual for the A6 ELECTRICITY AND ELECTRONICS certification exam contains an abundance of content designed to help you successfully pass your ASE

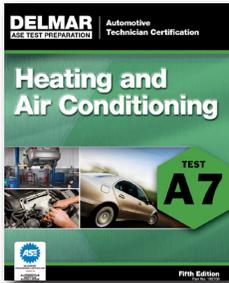
exam. This manual will ensure that you not only understand the task list and therefore the content your actual certification exam will be based upon, but also provides descriptions of the various types of questions on a typical ASE exam, as well as presents valuable test taking strategies enabling you to be fully prepared and confident on test day.

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## ASE TEST PREPARATION - A7 HEATING AND AIR CONDITIONING, 5E

Delmar, Cengage Learning

© 2012, 176pp, Paperback, 9781111127091



The fifth edition of Delmar's Automotive Service Excellence (ASE) Test Preparation Manual for the A7 HEATING AND AIR CONDITIONING certification exam contains an abundance of content designed to help you successfully pass your ASE

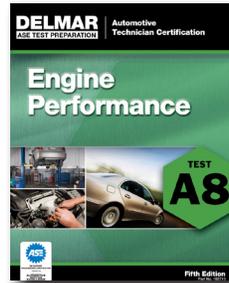
exam. This manual will ensure that you not only understand the task list and therefore the content your actual certification exam will be based upon, but also provides descriptions of the various types of questions on a typical ASE exam, as well as presents valuable test taking strategies enabling you to be fully prepared and confident on test day.

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## ASE TEST PREPARATION - A8 ENGINE PERFORMANCE, 5E

Delmar, Cengage Learning

© 2012, 192pp, Paperback, 9781111127107



The fifth edition of Delmar's Automotive Service Excellence (ASE) Test Preparation Manual for the A8 ENGINE PERFORMANCE certification exam contains an abundance of content designed to help you successfully pass your ASE

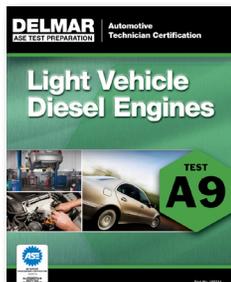
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## ASE TEST PREPARATION - A9 LIGHT VEHICLE DIESEL ENGINES

Delmar

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The first edition of Delmar's Automotive Service Excellence (ASE) Test Preparation Manual for the A9 LIGHT VEHICLE DIESEL ENGINES certification exam contains an abundance of content designed to help you successfully pass your ASE

exam. This manual will ensure that you not only understand the task list and therefore the content your actual certification exam will be based upon, but also provides descriptions of the various types of questions on a typical ASE exam, as well as presents valuable test taking strategies enabling you to be fully prepared and confident on test day.

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## ASE TEST PREPARATION - C1 SERVICE CONSULTANT, 5E

Delmar

© 2012, 176pp, Paperback, 9781111127121



The fifth edition of Delmar's Automotive Service Excellence (ASE) Test Preparation Manual for the C1 SERVICE CONSULTANT certification exam contains an abundance of content designed to help you successfully pass your ASE

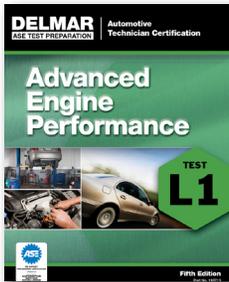
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## ASE TEST PREPARATION - L1 ADVANCED ENGINE PERFORMANCE, 5E

*Delmar, Cengage Learning*

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The fifth edition of Delmar's Automotive Service Excellence (ASE) Test Preparation Manual for the L1 ADVANCED ENGINE PERFORMANCE certification exam contains an abundance of content designed to help you successfully pass your ASE

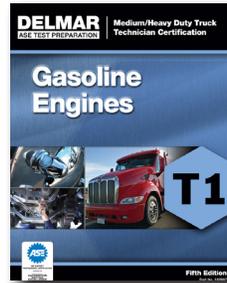
exam. This manual will ensure that you not only understand the task list and therefore the content your actual certification exam will be based upon, but also provides descriptions of the various types of questions on a typical ASE exam, as well as presents valuable test taking strategies enabling you to be fully prepared and confident on test day.

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## ASE TEST PREPARATION - T1 GASOLINE ENGINES, 5E

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The fifth edition of DELMAR'S AUTOMOTIVE SERVICE EXCELLENCE (ASE) TEST PREPARATION MANUAL for the Medium/Heavy Duty Truck T1 Gasoline Engines exam now contains even more content so you can pass your ASE exam the

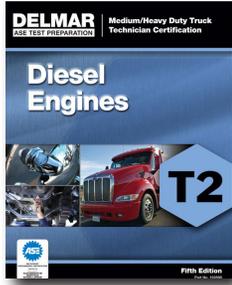
first time. This manual will ensure that you understand the Gasoline Engines task list and are fully prepared and confident to take your exam.

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## ASE TEST PREPARATION - T2 DIESEL ENGINES, 5E

*Delmar, Cengage Learning*

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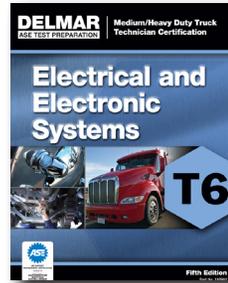
The fifth edition of DELMAR'S AUTOMOTIVE SERVICE EXCELLENCE (ASE) TEST PREPARATION MANUAL for the Medium/Heavy Duty Truck T2 Drive Train exam now contains even more content so you can pass your ASE exam the first time. This manual will ensure that you understand the Drive Train task list and are fully prepared and confident to take your exam.

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## ASE TEST PREPARATION - T6 ELECTRICAL AND ELECTRONIC SYSTEM, 5E

*Delmar, Cengage Learning*

© 2012, 224pp, Paperback, 9781111129026



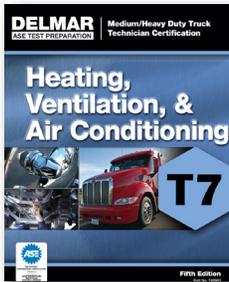
The fifth edition of DELMAR'S AUTOMOTIVE SERVICE EXCELLENCE (ASE) TEST PREPARATION MANUAL for the Medium/Heavy Duty Truck T6 Electrical and Electronic Systems exam now contains even more content so you can pass your ASE exam the first time. This manual will ensure that you understand the Electrical and Electronic Systems task list and are fully prepared and confident to take your exam.

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## ASE TEST PREPARATION - T7 HEATING, VENTILATION, AND AIR CONDITIONING, 5E

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The fifth edition of DELMAR'S AUTOMOTIVE SERVICE EXCELLENCE (ASE) TEST PREPARATION MANUAL for the Medium/Heavy Duty Truck T7 Heating, Ventilation, and Air Conditioning exam now contains even more content

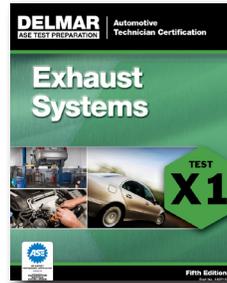
so you can pass your ASE exam the first time. This manual will ensure that you understand the Heating, Ventilation, and Air Conditioning task list and are fully prepared and confident to take your exam.

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## ASE TEST PREPARATION - X1 EXHAUST SYSTEMS, 5E

*Delmar, Cengage Learning*

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The fifth edition of Delmar's Automotive Service Excellence (ASE) Test Preparation Manual for the X1 EXHAUST SYSTEMS certification exam contains an abundance of content designed to help you successfully pass your ASE exam. This manual will

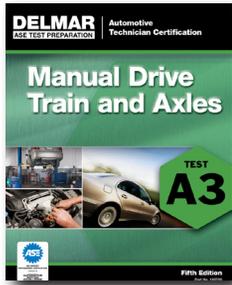
ensure that you not only understand the task list and therefore the content your actual certification exam will be based upon, but also provides descriptions of the various types of questions on a typical ASE exam, as well as presents valuable test taking strategies enabling you to be fully prepared and confident on test day.

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## ASE TEST PREPARATION- A3 MANUAL DRIVE TRAINS AND AXLES, 5E

Delmar

© 2012, 208pp, Paperback, 9781111127053



The fifth edition of Delmar's Automotive Service Excellence (ASE) Test Preparation Manual for the A3 MANUAL DRIVE TRAINS AND AXLES certification exam contains an abundance of content designed to help you successfully pass your ASE

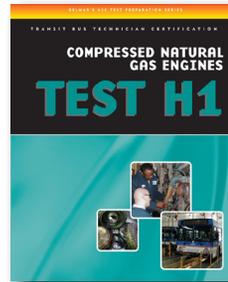
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## ASE TEST PREPARATION - TRANSIT BUS H1, COMPRESSED NATURAL GAS

Delmar, Cengage Learning

© 2011, 254pp, Paperback, 9781435439399



With more natural gas vehicles on the roads than ever before, today's technicians need to be prepared to service these vehicles, both in the shop and in a testing environment for ASE certification. To accomplish this, ASE Test Preparation – H1,

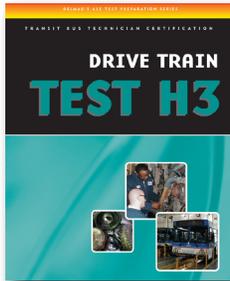
Compressed Natural Gas has gathered the latest need-to-know information about the new compressed natural gas task list, and paired it with ASE-style practice tests. The book begins with a history of the ASE and progresses to include guidelines, techniques, and strategies for taking and passing the certification exams. An overview of the task lists follows and is reinforced with both ASE-style practice questions and answer rationales that allow readers to practice their test-taking skills and identify areas in need of improvement.

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## ASE TEST PREPARATION - TRANSIT BUS H3, DRIVE TRAIN

Delmar

© 2009, 254pp, Paperback, 9781435453760



When you study with this ASE Test Preparation Manual for your Transit Bus Drive Train (H3) exam, you can be confident that you're getting the most up-to-date ASE task list available and the most current industry information. This comprehensive resource

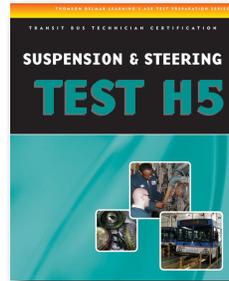
provides the skills, knowledge, and practice questions needed to successfully prepare for the exam. Ideal for entry-level transit bus technicians, as well as any transit bus technician seeking certification, it is a must-have in the journey toward certification.

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## ASE TEST PREPARATION - TRANSIT BUS H5, SUSPENSION AND STEERING

Delmar, Cengage Learning

© 2009, 254pp, Paperback, 9781428340114



For the first time, there is a test preparation guide designed specifically to meet the requirements of the ASE certification exam for Transit Bus H5, Suspension and Steering. This exclusive new offering from Delmar Learning, ASE Test Preparation - Transit

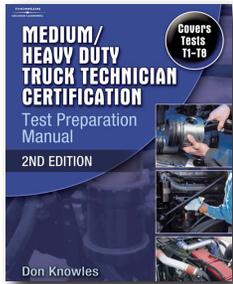
Bus H5, Suspension and Steering, is based upon the newly released ASE task list for this exam, and pairs it with ASE-style practice questions. The end result is a thorough and relevant training regimen for anyone seeking to successfully master the H5 ASE certification exam.

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## MEDIUM/HEAVY DUTY TRUCK TECHNICIAN CERTIFICATION TEST PREPARATION MANUAL, 2E

*Don Knowles*

© 2008, 576pp, Paperback, 9781418066000



Updated to reflect the most current ASE tasks, this book combines a clear writing style, in-depth coverage, and abundant practice questions and tests to deliver a tool that will help trucking technicians and students successfully prepare for all eight areas

of the Medium/Heavy Duty Truck certification exams. Each chapter of the Medium/Heavy Duty Truck Technician Certification Test Preparation Manual, 2nd Edition is devoted to thoroughly covering one specific ASE truck test, resulting in eight core chapters that instill the knowledge and skills needed to get certified. These chapters include extensive coverage of all the ASE tasks associated with each test, ASE-style questions to familiarize users with the testing format, as well as hints to encourage users to be actively involved in the problem-solving process. Pre-tests, post-tests, and sample tests are all accompanied by answers and answer analysis so users can receive immediate feedback for a continuous learning process.

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## AUTOMOTIVE SERVICE MANAGEMENT

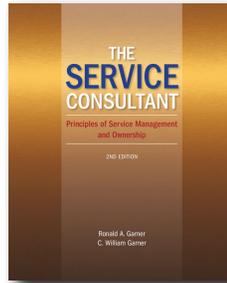
### THE SERVICE CONSULTANT, 2E

Principles of Service Management and Ownership

*Ronald A. Garner, Pennsylvania College of Technology; C. William Garner, Rutgers University*

© 2014, 416pp, Paperback, 9780357671269

### eBook



Designed to prepare you for a successful career as an automotive service consultant, **THE SERVICE CONSULTANT: PRINCIPLES OF SERVICE MANAGEMENT AND OWNERSHIP**, Second Edition teaches you how to maximize profits and

improve customer satisfaction in an automotive business. With coverage of task-oriented procedures for day-to-day operations as well as communications, relations, supervision, and customer delivery, this practical text provides you with an in-depth examination of the multi-faceted responsibilities of an automotive service consultant. In addition, the text content correlates to the ASE tasks for Automotive Service Consultant (C1) in order to help you better prepare for the ASE certification exam. Furthermore, the second edition contains updated examples, activities, technology, case studies, and visual aids so that you are exposed to the most up-to-date information in the field.

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## ASE TEST PREPARATION - C1 SERVICE CONSULTANT, 5E

Delmar

© 2012, 176pp, Paperback, 9781111127121



The fifth edition of Delmar's Automotive Service Excellence (ASE) Test Preparation Manual for the C1 SERVICE CONSULTANT certification exam contains an abundance of content designed to help you successfully pass your ASE

exam. This manual will ensure that you not only understand the task list and therefore the content your actual certification exam will be based upon, but also provides descriptions of the various types of questions on a typical ASE exam, as well as presents valuable test taking strategies enabling you to be fully prepared and confident on test day.

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## AUTOMOTIVE SYSTEMS

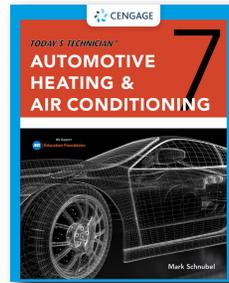
### TODAY'S TECHNICIAN, 7E

Automotive Heating & Air Conditioning Classroom Manual and Shop Manual

Mark Schnubel, Naugatuck Valley Community College

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### MindTap eBook



Understand and master the principles, components, diagnosis and repair of modern automotive heating and air conditioning systems with TODAY'S TECHNICIAN: AUTOMOTIVE HEATING & AIR CONDITIONING CLASSROOM MANUAL

AND SHOP MANUAL, 7th edition. This integrated, two-book set covers theory and hands-on content in separate Classroom and Shop Manuals, enabling you to learn fundamental climate control theory -- including basic physics related to heat transfer -- before applying your knowledge through practical, hands-on shop work. Cross-references in each manual link related material, making it easy to connect classroom learning to lab and shop activity. Updated to reflect the latest trends, technology and relevant ASE Education Foundation standards, the 7th edition includes new material on refrigerant R-1234yf (HFO-1234yf) and a vibrant full-color design. Also available: MindTap's anywhere, anytime digital learning solution.

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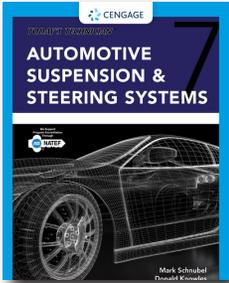
## TODAY'S TECHNICIAN, 7E

Automotive Suspension & Steering Classroom Manual and Shop Manual

Mark Schnubel, *Naugatuck Valley Community College*

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Make the most of your time in both the classroom and the auto shop, and learn to diagnose and service automotive suspension and steering systems with confidence. This trusted text includes a dedicated Classroom Manual that introduces essential theory

and applications, plus a standalone Shop Manual focused on real-world symptoms, diagnostics, and repairs. With comprehensive coverage, accurate and up-to-date details, and abundant illustrations, this reader-friendly resource will help prepare you for success as an automotive technician or ASE certification. Now updated with extensive information on new and emerging technology and techniques—including hybrid and electric vehicles, tire plus sizing, and computer-controlled suspensions—the Seventh Edition also aligns with area A4 of the ASE Education Foundation 2017 accreditation model, including job sheets correlated to specific MLR, AST and MAST tasks.

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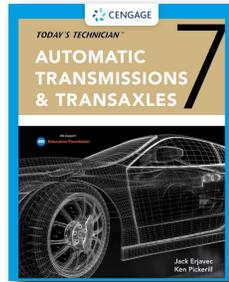
## TODAY'S TECHNICIAN, 7E

Automatic Transmissions and Transaxles Classroom Manual and Shop Manual

Jack Erjavec, *Columbus State Community College (Emeritus)*;  
Ken Pickerill

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AUTOMATIC  
TRANSMISSIONS AND  
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CLASSROOM MANUAL  
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Seventh Edition. This  
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practical, easy-to-  
understand coverage of

topics aligned to the latest ASE Education Foundation standards for the MLR/AST/MAST program accreditation levels, including continuously variable transmissions (CVT), drivelines for front-wheel drive (FWD) and four-wheel drive (4WD) vehicles, and the latest information on today's high-tech electronic controls and automatic shifting devices. The Classroom Manual provides easy-to-understand coverage of every applicable ASE Education Foundation standard, while the Shop Manual includes Job Sheets to guide you through hands-on service and repair tasks. Written with the needs of current and aspiring technicians in mind, this trusted text will help you master the design, construction, troubleshooting techniques, and procedures necessary for a successful industry career.

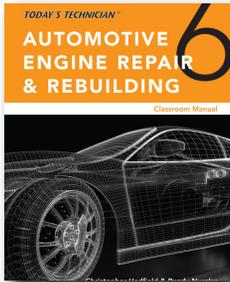
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## TODAY'S TECHNICIAN: AUTOMOTIVE ENGINE REPAIR & REBUILDING, CLASSROOM MANUAL AND SHOP MANUAL, SPIRAL BOUND VERSION, 6E

Chris Hadfield; Randy Nussler, *New Market Skills Center*

© 2018, 1040pp, Paperback, 9781305958135

### MindTap eBook



TODAY'S TECHNICIAN: AUTOMOTIVE ENGINE REPAIR & REBUILDING, CLASSROOM MANUAL AND SHOP MANUAL, Sixth Edition, delivers the theory and skills you need to repair and service modern automotive engines as a professional technician,

along with proven preparation for the Automotive Service Excellence (ASE) certification exam. Using a logical, system-specific approach, the text covers engine construction and operation, intake and exhaust systems, and engine repair, as well as the basics of engine rebuilding. Drawing on decades of shop and classroom experience, the authors provide valuable, forward-looking industry insights on topics such as advances in hybrid technology, factors affecting engine performance, and the design and function of modern engine components. Long known for its technical accuracy and concise writing style, the Sixth Edition of this reader-friendly text includes extensive updates to reflect the latest ASE Education Foundation standards, new information on current industry trends and developments, additional drawings and photos, and a variety of electronic learning tools.

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## TODAY'S TECHNICIAN, 2E

Advanced Automotive Electronic Systems, Classroom Manual and Shop Manual

Barry Hollembeak

© 2018, 464pp, Paperback, 9780357761106

### MindTap



TODAY'S TECHNICIAN: ADVANCED AUTOMOTIVE ELECTRONIC SYSTEMS, Second Edition, helps readers understand, diagnose, and repair the sophisticated electronic systems in today's automobiles. Bridging theory and practice, the text

provides an overview of important electronic systems and outlines real-world symptoms, diagnostics, and repair information. Known for its thorough coverage, accurate technical information, and detailed visuals, this resource prepares users for success on ASE certification exams or as an automotive technician. The Second Edition adds detailed coverage of network architecture and increased coverage of telematic systems, Wi-Fi connectivity, remote start, and stop/start technology. This edition is enhanced with full-color photography and illustrations. Text content aligns with the ASE Education Foundation 2017 accreditation model—including job sheets correlated to specific MLR, AST and MAST tasks.

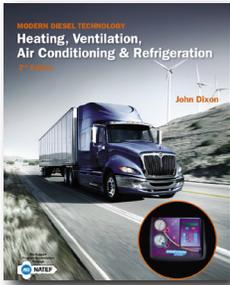
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## MODERN DIESEL TECHNOLOGY, 2E Heating, Ventilation, Air Conditioning & Refrigeration

John Dixon, Centennial College, Toronto

© 2014, 352pp, Paperback, 9781133716259

### eBook



Easy to read yet technically precise, MODERN DIESEL TECHNOLOGY: HEATING, VENTILATION, AIR CONDITIONING, AND REFRIGERATION, 2nd Edition is the text of choice for many of the country's best diesel technology programs! Detailing the

foundations of truck heating, air conditioning, engine cooling, and truck-trailer refrigeration, the book integrates modern technical terms with photos that clearly demonstrate typical, on-the-job tasks in logical sequence. Coverage includes an entire section on thermodynamics, as well as solid instruction on safety, equipment, components, troubleshooting, performance testing, maintenance, and even the history of HVAC/R in the diesel trucking industry. Enhanced with photos, drawings, and self-testing questions in each chapter, MODERN DIESEL TECHNOLOGY: HEATING, VENTILATION, AIR CONDITIONING, AND REFRIGERATION, 2nd Edition delivers the technical accuracy and depth of HVAC/R information you need for a rewarding career as a diesel technician.

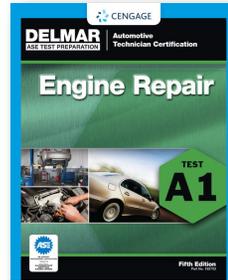
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## ASE TEST PREPARATION - A1 ENGINE REPAIR, 5E

Delmar

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### eBook



The fifth edition of Delmar's Automotive Service Excellence (ASE) Test Preparation Manual for the A1 ENGINE REPAIR certification exam contains an abundance of content designed to help you successfully pass your ASE exam. This manual will

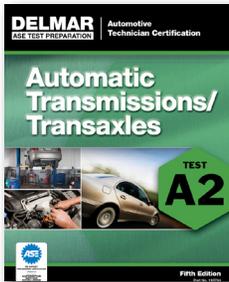
ensure that you not only understand the task list and therefore the content your actual certification exam will be based upon, but also provides descriptions of the various types of questions on a typical ASE exam, as well as presents valuable test taking strategies enabling you to be fully prepared and confident on test day.

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## ASE TEST PREPARATION - A2 AUTOMATIC TRANSMISSIONS AND TRANSAXLES, 5E

Delmar

© 2012, 176pp, Paperback, 9781111127046



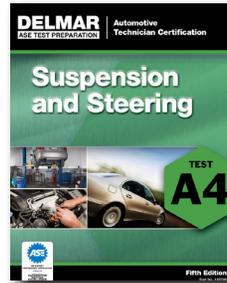
The fifth edition of Delmar's Automotive Service Excellence (ASE) Test Preparation Manual for the A2 AUTOMATIC TRANSMISSIONS AND TRANSAXLES certification exam contains an abundance of content designed to help you successfully pass your ASE exam. This manual will ensure that you not only understand the task list and therefore the content your actual certification exam will be based upon, but also provides descriptions of the various types of questions on a typical ASE exam, as well as presents valuable test taking strategies enabling you to be fully prepared and confident on test day.

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## ASE TEST PREPARATION - A4 SUSPENSION AND STEERING, 5E

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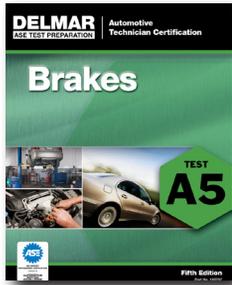
The fifth edition of Delmar's Automotive Service Excellence (ASE) Test Preparation Manual for the A4 SUSPENSION AND STEERING certification exam contains an abundance of content designed to help you successfully pass your ASE exam. This manual will ensure that you not only understand the task list and therefore the content your actual certification exam will be based upon, but also provides descriptions of the various types of questions on a typical ASE exam, as well as presents valuable test taking strategies enabling you to be fully prepared and confident on test day.

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## ASE TEST PREPARATION - A5 BRAKES, 5E

Delmar

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The fifth edition of Delmar's Automotive Service Excellence (ASE) Test Preparation Manual for the A5 BRAKES certification exam contains an abundance of content designed to help you successfully pass your ASE exam. This manual will

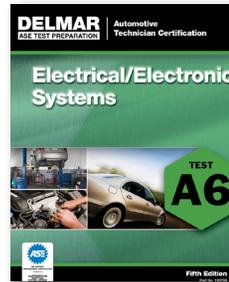
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## ASE TEST PREPARATION - A6 ELECTRICAL/ELECTRONIC SYSTEMS, 5E

Delmar

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The fifth edition of Delmar's Automotive Service Excellence (ASE) Test Preparation Manual for the A6 ELECTRICITY AND ELECTRONICS certification exam contains an abundance of content designed to help you successfully pass your ASE

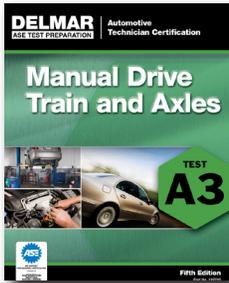
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## ASE TEST PREPARATION- A3 MANUAL DRIVE TRAINS AND AXLES, 5E

Delmar

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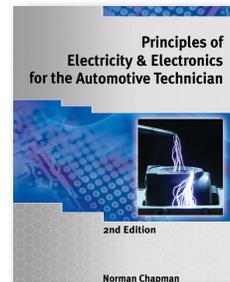
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## PRINCIPLES OF ELECTRICITY & ELECTRONICS FOR THE AUTOMOTIVE TECHNICIAN, 2E

Norm Chapman, South Puget Sound Community College

© 2010, 608pp, Paperback, 9781428361218



Principles of Electricity & Electronics for the Automotive Technician, 2E thoroughly covers the basics of automotive electricity and electronics to fully prepare beginning technicians for more complex electrical concepts.

Written by an ASE Master Technician and teacher, the book draws readers in using a combination of basic theory, case studies, hands-on vehicle tasks and ASE-style review questions. The updated second edition includes expanded coverage of hybrid electrical vehicles and safety procedures, technological advances in electronically controlled vehicle accessories, and new troubleshooting techniques using cutting-edge equipment and procedures. Simple illustrations and wiring diagrams, along with straightforward explanations of how automotive electricity and electronics work, act together to make this an ideal introduction to electrical and electronics diagnostics and service.

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## AUTOMOTIVE TECHNICIAN TRAINING

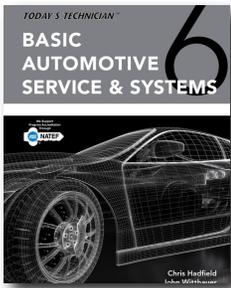
### TODAY'S TECHNICIAN, 6E

Basic Automotive Service & Systems Classroom Manual and Shop Manual

*Chris Hadfield; John Witthauer, Goodwill Easter Seals Automotive Training Program*

© 2021, 1008pp, Paperback, 9781337795661

### MindTap eBook



This trusted text provides a comprehensive, accessible overview of automotive systems to prepare you for all aspects of work in the field. BASIC AUTOMOTIVE SERVICE & SYSTEMS, Sixth Edition, includes a Classroom Manual that explores the operational

theory behind each automotive system, and a Shop Manual covering relevant diagnostic, testing, and repair procedures. Updated to align with Task Lists for the latest ASE Education Foundation requirements, the Sixth Edition covers emerging technologies such as hybrid vehicles and electronic engine controls, as well as current information on the global automotive industry and the role you can play within it as a professional technician. The authors assume no prior knowledge of automotive technology, so these clear and engaging resources provide an ideal introduction to both fundamental theory and its real-world applications in specific skills and maintenance procedures, preparing you for success in today's fast-paced, competitive work environment.

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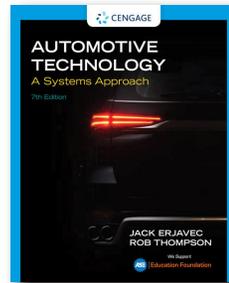
### AUTOMOTIVE TECHNOLOGY, 7E

A Systems Approach

*Jack Erjavec, Columbus State Community College (Emeritus); Rob Thompson, Columbus State Community College*

© 2020, 1728pp, Hardback, 9781337794213

### MindTap eBook



AUTOMOTIVE TECHNOLOGY: A SYSTEMS APPROACH provides comprehensive coverage with updates to address the latest ASE Education Foundation requirements for Maintenance and Light Repair (MLR), Automotive

Service Technology (AST), and Master Service Technology (MAST) program accreditation levels. Thoroughly revised to provide accurate, current information on the latest technology, industry trends, and state-of-the-art tools and techniques, the Seventh Edition is an essential resource for building career ready students who want to succeed in the dynamic, rapidly evolving field of automotive service and repair.

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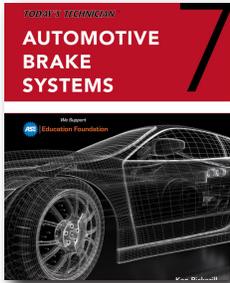
## TODAY'S TECHNICIAN, 7E

Automotive Brake Systems, Classroom and Shop Manual Pre-Pack

Ken Pickerill

© 2019, Paperback, 9781337564526

MindTap eBook



This comprehensive resource includes everything you need to understand, diagnose, and repair today's brake systems with confidence--and prepare for ASE certification and career success as an automotive technician. In addition to

thorough coverage, accurate and up-to-date details, and abundant illustrations, TODAY'S TECHNICIAN: AUTOMOTIVE BRAKE SYSTEMS, CLASSROOM AND SHOP MANUAL PRE-PACK, Seventh Edition, offers a uniquely convenient two-volume approach. The first volume is a Classroom Manual covering the theory and application of the total brake system, subsystem, and components. Volume two is a Shop Manual that explores real-world symptoms, diagnostics, and repairs, and is ideal for standalone use as a reference on the job. In addition to aligning with the ASE Education Foundation 2017 accreditation model, the Seventh Edition features job sheets correlated to specific MLR, AST and MAST tasks, and extensive information on new and emerging technology and techniques--including hybrid vehicles, brake by wire, and electric brakes.

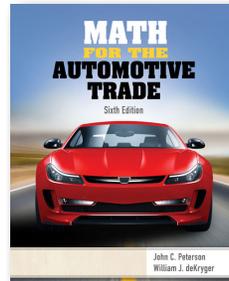
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## MATH FOR THE AUTOMOTIVE TRADE, 6E

John C. Peterson, Chattanooga State Technical Community College; William deKryger

© 2018, 368pp, Paperback, 9781337101813

MindTap eBook



MATH FOR THE AUTOMOTIVE TRADE, 6th Edition, is the easy-to-understand worktext that delivers the real-world math you need for automotive repair careers—and kicks the rest to the curb. Using real manufacturer specs, completing automotive

repair orders, and checking your results against industry references right in the appendices, you'll practice the calculations that automotive repair technicians do on the job every day. Written by seasoned automotive pros, MATH FOR THE AUTOMOTIVE TRADE starts with the math basics, greasing the wheels before moving on to the practice exercises. Even better, this book includes the latest, easy-to-understand information about taxes, finances, discounts, and profits, to simplify business math, and move you a step closer to a career in management or your own automotive repair shop.

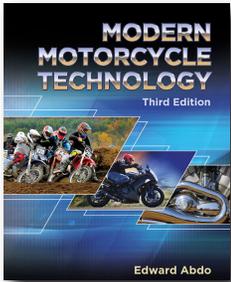
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## MODERN MOTORCYCLE TECHNOLOGY, 3E

Edward Abdo

© 2017, 544pp, Paperback, 9780357671108

### eBook



MODERN MOTORCYCLE TECHNOLOGY, Third Edition, provides an in-depth, visually rich guide to the internal and external workings of today's motorcycles. The book begins with an overview of motorcycle technology, including the history of the

motorcycle and the current state of the industry. Coverage then progresses to safety measures, engine operation, internal combustion engines (two-stroke and four-stroke), electrical fundamentals, motorcycle maintenance, and troubleshooting. Thoroughly updated, the Third Edition includes the latest motorcycle models and technology from today's top manufacturers, as well as additional material on topics such as fuel injection, suspension systems, and electronics. The text is accompanied by a hands-on Student Skill Guide. Now better than ever, this trusted guide is ideal for anyone seeking the knowledge and skills to succeed in today's motorcycle technology field.

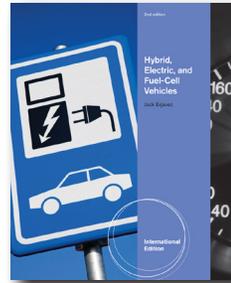
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## HYBRID, ELECTRIC AND FUEL-CELL VEHICLES, INTERNATIONAL EDITION, 2E

Jack Erjavec, Columbus State Community College (Emeritus)

© 2013, 400pp, Paperback, 9781133284352

### eBook



HYBRID, ELECTRIC AND FUEL-CELL VEHICLES, 2E, International Edition, covers the cutting-edge technology and technology that are revolutionizing today's automotive industry. Author Jack Erjavec combines in-depth industry expertise with an engaging,

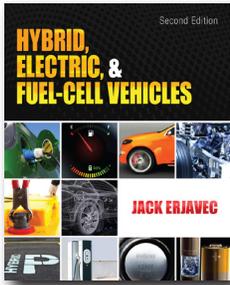
reader-friendly style, providing extensive detail on new and upcoming electric vehicles, including hybrids in production today and the fuel cell vehicles of tomorrow. Expansive coverage ranges from basic theory related to vehicle construction, electricity, batteries, and motors, to the political and social impact of these high-profile vehicles. In addition to up-to-date, highly accurate technical information on vehicles available today—including service procedures and safe shop practices—the text provides an informed look into the future with material on vehicles currently under development.

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## HYBRID, ELECTRIC, AND FUEL-CELL VEHICLES, 2E

Jack Erjavec, Columbus State Community College (Emeritus)

© 2013, 400pp, Paperback, 9780840023957



HYBRID, ELECTRIC AND FUEL-CELL VEHICLES, Second Edition, covers the cutting-edge technology and technology that are revolutionizing today's automotive industry. Author Jack Erjavec combines in-depth industry expertise with an engaging, reader-

friendly style, providing extensive detail on new and upcoming electric vehicles, including hybrids in production today and the fuel cell vehicles of tomorrow. Expansive coverage ranges from basic theory related to vehicle construction, electricity, batteries, and motors, to the political and social impact of these high-profile vehicles. In addition to up-to-date, highly accurate technical information on vehicles available today—including service procedures and safe shop practices—the text provides an informed look into the future with material on vehicles currently under development.

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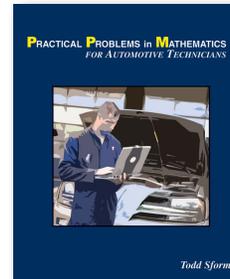
## PRACTICAL PROBLEMS IN MATHEMATICS, 7E

For Automotive Technicians

Todd Sformo, Ilisagvik College

© 2009, 288pp, Paperback, 9781428335240

**eBook**



Comprehensive and easy to use, the revised and updated seventh edition covers practical math problems that automotive technicians will face on the job. The easy-to-read and well organized chapters of Practical Problems in Mathematics for Automotive

Technicians, Seventh Edition feature step-by-step instructions, diagrams, charts, and examples that facilitate the problem-solving process while reinforcing key concepts. The presentation builds from the basics of whole-number operations to cover percentages, linear measurement, ratios, and the use of more advanced formulas. With a special section on graphs, scale reading of test meters, and invoices found in the workplace, this text is tailor-made for students in any automotive course of study!

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## COLLISION REPAIR

### AUTO BODY REPAIR TECHNOLOGY, 7E

*James E. Duffy, Indiana State University, President, Beneficial Books and Video; Jonathan Beaty, Tennessee College of Applied Technology Livingston, Instructor, Collision Repair Technology*

© 2021, 1088pp, Hardback, 9780357139790

### MindTap eBook



AUTO BODY REPAIR TECHNOLOGY, Seventh Edition, features extensive new and updated material reflecting the latest automotive technology and current industry best practices. In addition to incorporating current ASE Education Foundation

Collision Repair and Refinish Program Standards and Task Lists, this market-leading text provides detailed information on working with hybrid and electric vehicles, using environmentally friendly water-based paints, resistance spot and nitrogen plastic welding and other cutting-edge methods and materials. Celebrated for its clear, reader-friendly explanations and detailed, accurate information, this proven guide also includes abundant full-color photos and illustrations--many new or updated for the Seventh Edition--to make even complex concepts easier to understand and apply. Available supplements include a tech manual with shop assignments and newly updated and expanded job sheets, as well as interactive online resources ideal for today's learners. Providing comprehensive coverage of collision repair--from initial evaluation and estimating, to structural and mechanical repairs, to repainting and refinishing--this trusted guide will help you quickly and confidently learn the skills and procedures you need to succeed as a professional automotive technician.

### TECH MANUAL FOR UHRINA/DUFFY/BEATY'S AUTO BODY REPAIR TECHNOLOGY, 7E

*James E. Duffy, Indiana State University, President, Beneficial Books and Video; Jonathan Beaty, Tennessee College of Applied Technology Livingston, Instructor, Collision Repair Technology; Jonathan Beaty, Tennessee College of Applied Technology Livingston, Instructor, Collision Repair Technology*

© 2021, Paperback, 9780357139806



The Tech Manual is designed to help readers apply what they learn from chapter content through hands-on activity in the shop.

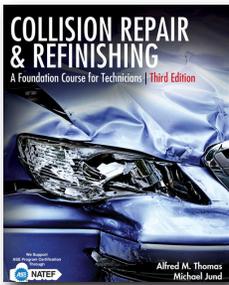
## COLLISION REPAIR AND REFINISHING, 3E

A Foundation Course for Technicians

*Alfred Thomas, Pennsylvania College of Technology; Michael Jund, Eastern Iowa Community College*

© 2018, 1072pp, Hardback, 9781305949942

### MindTap eBook



This trusted, reader-friendly text provides you with a thorough guide to all major areas of collision repair and refinishing as outlined by ASE Education Foundation. COLLISION REPAIR AND REFINISHING: A FOUNDATION COURSE FOR TECHNICIANS, Third

Edition, covers structural and non-structural analysis and damage repair, welding, painting and refinishing, paint chemistry, sacrificial coatings for corrosion resistance, mechanical and electrical systems, and more. A chapter on the expanded use of aluminum for domestic vehicle manufacture explores this important trend, as well as basic repair principles related to it. An engaging writing style, logical presentation of topics, and illustrations featuring current equipment and realistic applications make this comprehensive text a perfect choice for students with little or no prior exposure to collision repair.

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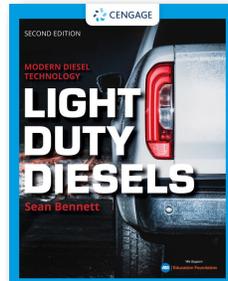
## DIESEL TECHNOLOGY

### MODERN DIESEL TECHNOLOGY, 2E Light Duty Diesels

Sean Bennett

© 2022, 432pp, Paperback, 9781337624978

### MindTap



MODERN DIESEL TECHNOLOGY: LIGHT DUTY DIESELS, Second Edition, gives you a thorough introduction to the light-duty diesel engine, the engine of choice to optimize fuel efficiency and longevity in workhorse pickup trucks, refrigeration units,

agricultural equipment and generators. While the major emphasis is on highway usage, best-selling author Sean Bennett also addresses current and legacy, small stationary and mobile off-highway diesels. Using a modularized structure, Bennett helps you gain a strong conceptual grounding in diesel engine technology while emphasizing hands-on technical competency. The text explores current diesel engine subsystems and management electronics in detail, while also providing a solid foundation in mechanical engine systems. All generations of CAN-bus technology are covered, including the basics of network bus troubleshooting. The author uses simple language to make even complex concepts easier to master and focuses on helping you gain the knowledge and expertise you need for career success as a diesel technician, including addressing ASE A9 task learning objectives in detail.

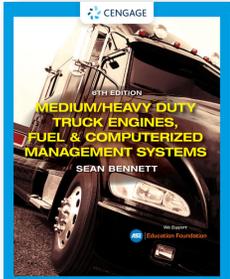
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## MEDIUM/HEAVY DUTY TRUCK ENGINES, FUEL & COMPUTERIZED MANAGEMENT SYSTEMS, 6E

Sean Bennett

© 2021, 1184pp, Hardback, 9780357358542

### MindTap eBook



Gear up for career success in the dynamic field of commercial truck engine service, with the latest edition of the most comprehensive to guide commercial vehicle engines and their management systems available today! Ideal for students, entry-

level technicians, and experienced professionals, **MEDIUM/HEAVY DUTY TRUCK ENGINES, FUEL & COMPUTERIZED MANAGEMENT SYSTEMS, Sixth Edition**, covers the full range of commercial vehicle diesel engines (from light- to heavy-duty), electric drivetrains, and the most current management electronics used in the industry. In addition, dedicated chapters deal with natural gas (NG) fuel systems, alternate fuels, hybrid drive, fuel cell, and all-electric drive systems. User-friendly and fully up to date, this trusted text addresses the latest ASE® Education Foundation tasks, places unique emphasis on the modern multiplexed chassis and telematics, and is designed to serve as a practical toolbox reference throughout your professional career.

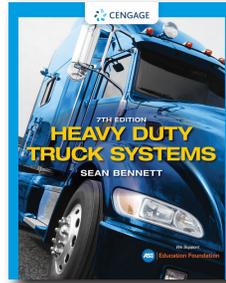
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## HEAVY DUTY TRUCK SYSTEMS, 7E

Sean Bennett

© 2020, 1344pp, Hardback, 9781337787109

### MindTap eBook



Prepare for your future career with **HEAVY DUTY TRUCK SYSTEMS, Seventh Edition**! This comprehensive, best-selling guide will help you gain the essential knowledge and skills needed to service medium- and heavy-duty trucks.

You'll build a strong foundation in electricity and electronics, powertrain, steering and suspension, brakes, and accessories systems, as well as mastering practical topics like servicing, safety, tools, and preventive maintenance. You'll also benefit from full coverage of the latest ASE Education Foundation IMMR/TST/MST competencies and the latest truck technology, including J1939 updates and access tools, lock-out tag-out compliance, expanded PicoScope coverage, DIN wiring schematic navigation, and the five levels of semi- and fully autonomous trucks. With extensive review questions, over 1800 full-color photos and illustrations, and a standalone workbook with ASE Education Foundation task-oriented job sheets, this proven text is the perfect choice to prepare you for professional success.

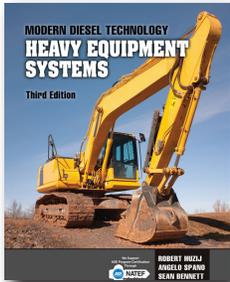
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## MODERN DIESEL TECHNOLOGY, 3E Heavy Equipment Systems

*Robert Huzij, Cambrian College; Angelo Spano, Centennial College; Sean Bennett*

© 2019, 624pp, Paperback, 9781337567589

### MindTap eBook



MODERN DIESEL TECHNOLOGY: HEAVY EQUIPMENT SYSTEMS, Third Edition, focuses on off-highway mobile equipment systems, giving you in-depth coverage of service and repair essentials for heavy equipment, agricultural equipment, and

powered lift truck technology. Written by experienced technicians, this trusted text includes both universal and manufacturer-specific information on everything from hydraulics, heavy-duty brakes, drivetrains, steering, suspension, and track systems, to safety and best practices. Now featuring a visually appealing, full-color design, the Third Edition is also newly updated with information on the latest computer-controlled hydraulics, GPS, electronic controls, J1939 multiplexing, and electric drive vehicle systems, offering insights into important trends and technology you need to know for success as a specialty technician in today's ever-evolving industry.

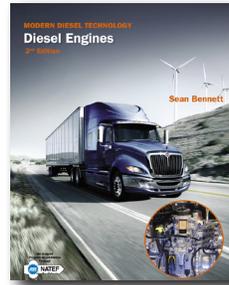
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## MODERN DIESEL TECHNOLOGY, 2E Diesel Engines

*Sean Bennett*

© 2015, 360pp, Paperback, 9781285442969

### eBook



MODERN DIESEL TECHNOLOGY: DIESEL ENGINES, Second Edition, provides a thorough, reader-friendly introduction to diesel engine theory, construction, operation, and service. Combining a simple, straightforward writing style, ample

illustrations, and step-by-step instruction, this trusted text helps aspiring technicians develop the knowledge and skills they need to service modern, computer-controlled diesel engines. The text provides an overview of essential topics such as shop safety, tools and equipment, engine construction and operation, major engine systems, and general service and repair concepts. Dedicated chapters then explore engine, fuel, and vehicle computer control subsystems, as well as diesel emissions. Thoroughly revised to reflect the latest technology, trends, and techniques—including current ASE Education Foundation standards—the Second Edition provides an accurate, up-to-date introduction to modern diesel engines and a solid foundation for professional success.

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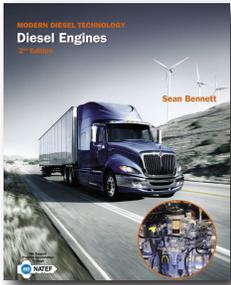
## MODERN DIESEL TECHNOLOGY, 2E

Diesel Engines

Sean Bennett

© 2015, Hardback, 9781285442976

### eBook



MODERN DIESEL TECHNOLOGY: DIESEL ENGINES, Second Edition, provides a thorough, reader-friendly introduction to diesel engine theory, construction, operation, and service. Combining a simple, straightforward writing style, ample

illustrations, and step-by-step instruction, this trusted text helps aspiring technicians develop the knowledge and skills they need to service modern, computer-controlled diesel engines. The text provides an overview of essential topics such as shop safety, tools and equipment, engine construction and operation, major engine systems, and general service and repair concepts. Dedicated chapters then explore engine, fuel, and vehicle computer control subsystems, as well as diesel emissions. Thoroughly revised to reflect the latest technology, trends, and techniques—including current ASE Education Foundation standards—the Second Edition provides an accurate, up-to-date introduction to modern diesel engines and a solid foundation for professional success.

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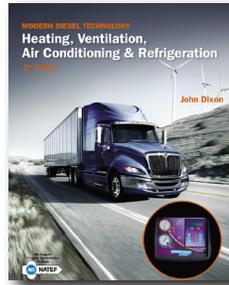
## MODERN DIESEL TECHNOLOGY, 2E

Heating, Ventilation, Air Conditioning & Refrigeration

John Dixon, Centennial College, Toronto

© 2014, 352pp, Paperback, 9781133716259

### eBook



Easy to read yet technically precise, MODERN DIESEL TECHNOLOGY: HEATING, VENTILATION, AIR CONDITIONING, AND REFRIGERATION, 2nd Edition is the text of choice for many of the country's best diesel technology programs! Detailing the

foundations of truck heating, air conditioning, engine cooling, and truck-trailer refrigeration, the book integrates modern technical terms with photos that clearly demonstrate typical, on-the-job tasks in logical sequence. Coverage includes an entire section on thermodynamics, as well as solid instruction on safety, equipment, components, troubleshooting, performance testing, maintenance, and even the history of HVAC/R in the diesel trucking industry. Enhanced with photos, drawings, and self-testing questions in each chapter, MODERN DIESEL TECHNOLOGY: HEATING, VENTILATION, AIR CONDITIONING, AND REFRIGERATION, 2nd Edition delivers the technical accuracy and depth of HVAC/R information you need for a rewarding career as a diesel technician.

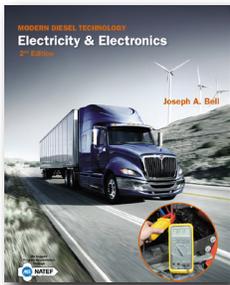
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## MODERN DIESEL TECHNOLOGY, 2E Electricity and Electronics

Joseph Bell

© 2014, 544pp, Paperback, 9781133949800

### eBook



Today's diesel vehicles integrate electrical and electronic controls within all major systems, making a thorough understanding of current technology essential for success as a diesel technician. Bell's MODERN DIESEL TECHNOLOGY: ELECTRICITY AND

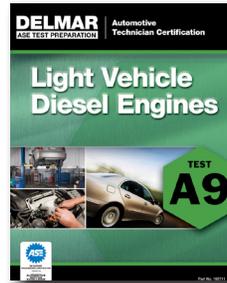
ELECTRONICS, Second Edition, provides this understanding through clear explanations of fundamental principles, detailed coverage of the latest engines and equipment, abundant real-world examples, and the technical accuracy and depth of detail that professional technicians demand. An engaging writing style and highly visual layout make the material easier to master, while a strong focus on practical applications and problem-solving help readers readily use what they learn in the shop. Now updated with a visually appealing, two-color design and new material to reflect the latest technology and practices, this proven guide is an essential resource for aspiring and professional diesel technicians alike.

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## ASE TEST PREPARATION - A9 LIGHT VEHICLE DIESEL ENGINES

Delmar

© 2012, 192pp, Paperback, 9781111127114



The first edition of Delmar's Automotive Service Excellence (ASE) Test Preparation Manual for the A9 LIGHT VEHICLE DIESEL ENGINES certification exam contains an abundance of content designed to help you successfully pass your ASE

exam. This manual will ensure that you not only understand the task list and therefore the content your actual certification exam will be based upon, but also provides descriptions of the various types of questions on a typical ASE exam, as well as presents valuable test taking strategies enabling you to be fully prepared and confident on test day.

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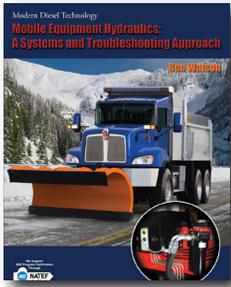
## MOBILE EQUIPMENT HYDRAULICS

A Systems and Troubleshooting Approach

*Ben Watson*

© 2011, 256pp, Paperback, 9781418080433

### eBook



Designed for the required course on hydraulics found in diesel technology and heavy equipment programs, **MOBILE EQUIPMENT HYDRAULICS: A SYSTEMS AND TROUBLESHOOTING APPROACH**, takes a practical approach to the

understanding of fluid power / hydraulic systems. Instead of concentrating on the design issues of fluid power systems this book approaches hydraulics more like a technician would to approach a system that requires maintenance or troubleshooting. Nearly all aspiring diesel technicians receive training in this subject, which is one of seven areas of study recognized by ASE Education Foundation in diesel technology. Coverage includes a study of terminology, industrial standards, symbols and basic circuitry design as related to fluid power. Examples are drawn from actual equipment that is relevant to the program of study, whether it be heavy truck, earth-moving, or agricultural equipment.

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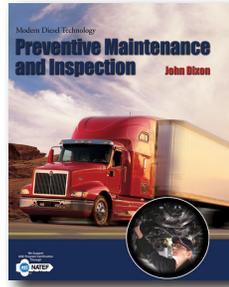
## MODERN DIESEL TECHNOLOGY

Preventive Maintenance and Inspection

*John Dixon, Centennial College, Toronto*

© 2010, 400pp, Paperback, 9781418053918

### eBook



Designed for technicians new to the field of preventive maintenance for trucks and trailers, this valuable resource offers readers a clear, solid understanding of the otherwise complex equipment involved in truck servicing. **MDT: Preventive Maintenance and Inspection**

provides the knowledge needed to identify potential problems during regular service, before they turn into major repair issues or a roadside breakdown. The book breaks down need-to-know content areas into chapters that make sense: from general shop safety and hand tools to truck/trailer reefer service and coupling systems and everything in between. Each chapter includes procedures for inspecting and maintaining that specific area. Using a generic preventive maintenance checklist as a guideline throughout, this go-to guide has everything the beginning technician needs to perform effective servicing.

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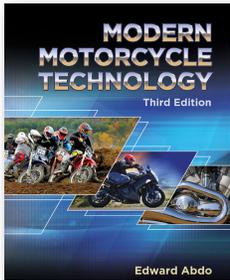
## MOTORCYCLE AND SMALL ENGINE TECHNOLOGY

### MODERN MOTORCYCLE TECHNOLOGY, 3E

*Edward Abdo*

© 2017, 544pp, Paperback, 9780357671108

#### eBook



MODERN MOTORCYCLE TECHNOLOGY, Third Edition, provides an in-depth, visually rich guide to the internal and external workings of today's motorcycles. The book begins with an overview of motorcycle technology, including the history of the motorcycle and the current state of the industry. Coverage then progresses to safety measures, engine operation, internal combustion engines (two-stroke and four-stroke), electrical fundamentals, motorcycle maintenance, and troubleshooting. Thoroughly updated, the Third Edition includes the latest motorcycle models and technology from today's top manufacturers, as well as additional material on topics such as fuel injection, suspension systems, and electronics. The text is accompanied by a hands-on Student Skill Guide. Now better than ever, this trusted guide is ideal for anyone seeking the knowledge and skills to succeed in today's motorcycle technology field.

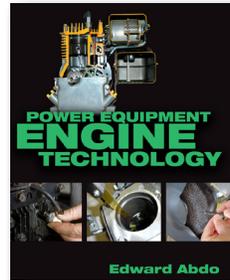
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### POWER EQUIPMENT ENGINE TECHNOLOGY

*Edward Abdo*

© 2011, 464pp, Hardback, 9781418053888

#### eBook



POWER EQUIPMENT ENGINE TECHNOLOGY (PEET) is designed to meet the basic needs of students interested in the subject of small engine repair. The subject matter is intended to help students become more qualified employment candidates for repair shops

looking for well-prepared, entry-level technicians. PEET has been written to make the learning experience enjoyable: The easy-to-read-and-understand chapters and over 600 illustrations assist visual learners with content comprehension. The book comprises 17 chapters, starting with a brief history of the internal combustion engine and ending with a chapter on troubleshooting various conditions found on any power equipment engine. Both two-stroke and four-stroke engines are covered. PEET can be used not only by pre-entry-level technicians but also as a reference manual by practicing technicians, and it will be helpful for the general consumer of power equipment engines that has an interest in understanding how they work. In today's world, an education prior to working in the field is becoming more desirable by all shops that hire. Power equipment technicians are currently sought after and will continue to be in demand in the future as technology advances in the manufacturing of modern power equipment engines.

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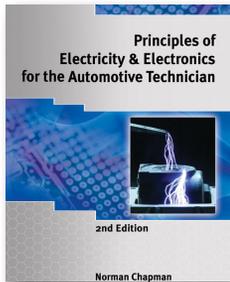
# AUTOMOTIVE SYSTEMS

## ELECTRICITY & ELECTRONICS

### PRINCIPLES OF ELECTRICITY & ELECTRONICS FOR THE AUTOMOTIVE TECHNICIAN, 2E

*Norm Chapman, South Puget Sound Community College*

© 2010, 608pp, Paperback, 9781428361218



Principles of Electricity & Electronics for the Automotive Technician, 2E thoroughly covers the basics of automotive electricity and electronics to fully prepare beginning technicians for more complex electrical concepts.

Written by an ASE Master Technician and teacher, the book draws readers in using a combination of basic theory, case studies, hands-on vehicle tasks and ASE-style review questions. The updated second edition includes expanded coverage of hybrid electrical vehicles and safety procedures, technological advances in electronically controlled vehicle accessories, and new troubleshooting techniques using cutting-edge equipment and procedures. Simple illustrations and wiring diagrams, along with straightforward explanations of how automotive electricity and electronics work, act together to make this an ideal introduction to electrical and electronics diagnostics and service.

## ENGINE REPAIR

### COMPUTERIZED ENGINE CONTROLS, 11E

*Steve V. Hatch, Lincoln College of Technology, Denver*

© 2021, 600pp, Paperback, 9780357358832

### MindTap eBook



With thorough coverage of both fundamental electrical concepts and current automotive electronic systems, **COMPUTERIZED ENGINE CONTROLS, Eleventh Edition**, equips you with the essential knowledge you need to successfully diagnose and

repair modern automotive systems. Reflecting the latest technological advances from the field, the Eleventh Edition offers updated and expanded coverage of diagnostic concepts, equipment, and approaches used by today's professionals. All photos and illustrations are now printed in full, vibrant color, making it easier for today's visual learners to engage with the material and connect chapter concepts to real-world applications. Drawing on abundant, firsthand industry experience, the author provides in-depth insights into cutting-edge topics such as hybrid and fuel cell vehicles, automotive multiplexing systems, and advanced driver assist systems. In addition, key concepts are reinforced with ASE-style end-of-chapter questions to help prepare you for certification and career success.

# BASIC TECHNICIAN TRAINING

## MATH SKILLS

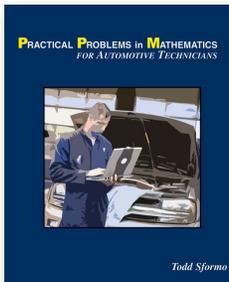
### PRACTICAL PROBLEMS IN MATHEMATICS, 7E

For Automotive Technicians

Todd Sformo, *Illisagvik College*

© 2009, 288pp, Paperback, 9781428335240

### eBook



Comprehensive and easy to use, the revised and updated seventh edition covers practical math problems that automotive technicians will face on the job. The easy-to-read and well organized chapters of Practical Problems in Mathematics for Automotive

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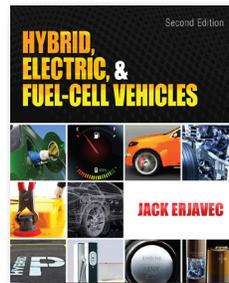
# RENEWABLE ENERGY

## RENEWABLE ENERGY

### HYBRID, ELECTRIC, AND FUEL-CELL VEHICLES, 2E

Jack Erjavec, *Columbus State Community College (Emeritus)*

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HYBRID, ELECTRIC AND FUEL-CELL VEHICLES, Second Edition, covers the cutting-edge technology and technology that are revolutionizing today's automotive industry. Author Jack Erjavec combines in-depth industry expertise with an engaging, reader-

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# TRUCKING

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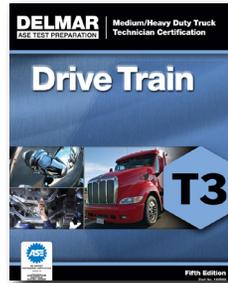
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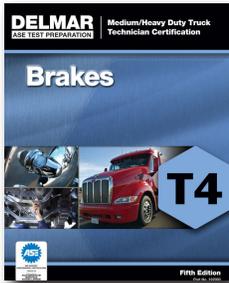
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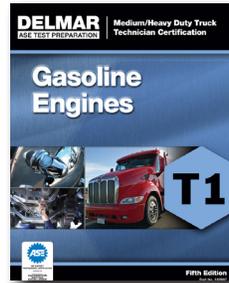
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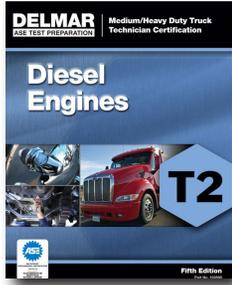
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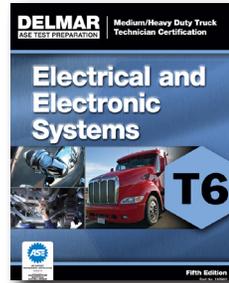
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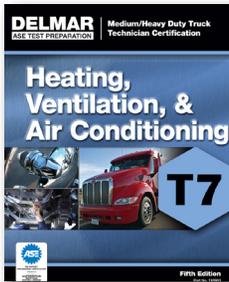
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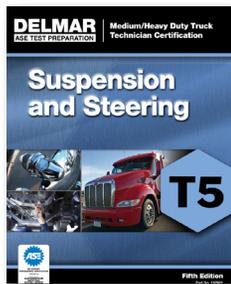
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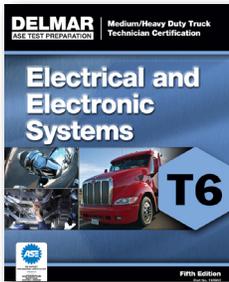
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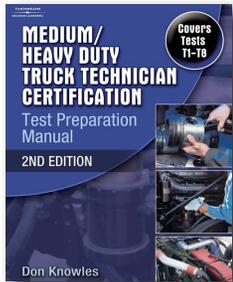
so you can pass your ASE exam the first time. This manual will ensure that you understand the Heating, Ventilation, and Air Conditioning task list and are fully prepared and confident to take your exam.

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*Don Knowles*

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Updated to reflect the most current ASE tasks, this book combines a clear writing style, in-depth coverage, and abundant practice questions and tests to deliver a tool that will help trucking technicians and students successfully prepare for all eight areas

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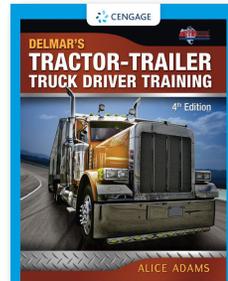
## TRUCK DRIVER TRAINING

### TRACTOR-TRAILER TRUCK DRIVER TRAINING, 4E

*Alice Adams; Ptdi*

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### eBook



When students need to learn from the resource even the pros trust, look no further than Delmar's Tractor-Trailer Truck Driver Training, 4E. Delmar is the only official education partner of the Professional Truck Driver Institute (PTDI). Our goal is to

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# Notes



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