

Modern Automotive Technology

By James E. Duffy

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Modern Automotive Technology, updated for 2014, is a comprehensive textbook organized around the ASE automobile test areas that supports career readiness for those wishing to pursue a job in the automotive industry. It details the construction, operation, diagnosis, service, and repair of late-model automobiles and light trucks. Using a building block approach, readers first learn the fundamentals of automotive systems and then progress gradually to complex diagnostics and service procedures. Updated content throughout the textbook, including a new Fundamentals of Electricity and Electronics section and a new Superchargers and Turbochargers chapter, prepares you to service today's vehicles. This book is also a perfect reference for experienced technicians preparing for industry certification.

- Correlated to all three sections of the 2013 NATEF Task List
- Covers 100% of the MLR Tasks
- ASE-type questions in every chapter for certification preparation
- Technical information presented in an easy-to-read format
- New Engine Reassembly, Installation, and Break-in chapter
- Six new chapters on electricity and electronics
- Troubleshooting charts in each service chapter to support quick diagnosis
- Hybrid drive system service and technology found throughout the book

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Editorial Review

About the Author

James E. Duffy has devoted much of his professional life to developing educational materials that help people understand vocational and technical subjects. Jim earned a Bachelor of Science degree in Industrial Technology from Indiana State University. After college, Jim worked as an automotive instructor at Brandon High School in Brandon, Florida, and at Hillsborough Adult Education Center in Tampa, Florida. After teaching for several years, Jim joined Goodheart-Willcox Publisher as a technical editor and eventually began writing textbooks. In addition to *Modern Automotive Technology*, Jim's books include *Auto Electricity and Electronics, Auto Engine Repair, Automatic Transmissions and Transaxles,* and *Manual Drive Trains and Axles.*

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