

Hybrid and Alternative Fuel Vehicles (4th Edition) (Automotive Systems Books)

By James D. Halderman

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Prepare tomorrow's automotive professionals for success.
Hybrid and Alternative Fuel Vehicles, 4/e is the ideal text for a modern service technician's course on hybrid electric vehicles. It combines essential background information with up-to-date, vehicle-specific information on the latest makes. Presented in a full-color format with over 60 new photos and line drawings to bring the concepts alive, plus helpful tips to guide students through the procedures they'll use on the job, the book covers the Chevrolet Volt, Tesla, and Nissan Leaf; the Buick LaCrosse mild hybrid; two-mode operation and transmission operation; high-voltage and auxiliary battery locations; the SAE J1772 electric vehicle plug; Level 1, 2 and 3 charging stations; and the latest alternative fuels. It also covers both engine performance (ASE A8 content) and advanced engine performance (ASE L1 content), enabling instructors to teach both ASE areas without requiring separate texts.

To keep your course current, all of the content is correlated to the latest NATEF tasks and ASE areas; all of the chapters are updated with the latest technology; and new chapters are included on oxygenated fuels; propane, CNG, LNG, and synthetic fuels; and electric and plug-in electric vehicles. New information has been added on HV battery testing using a scan tool and procedures for HV battery reconditioning added to Auxiliary and High-Voltage Batteries, and two new appendixes include a new sample ASE-type certification test for Hybrid/Electric Vehicle Specialist (L3) and an updated NATEF correlation chart for hybrid electric vehicles tasks.

This book is part of the Pearson Automotive Professional Technician Series, which features full-color, media-integrated solutions for today's students and instructors covering all eight areas of ASE certification, plus additional titles covering common courses. Peer reviewed for technical accuracy, the series and the books in it represent the future of automotive textbooks.

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Hybrid and Alternative Fuel Vehicles (4th Edition) (Automotive Systems Books) By James D. Halderman Bibliography

- Sales Rank: #413037 in Books
- Published on: 2015-02-21
- Original language: English
- Number of items: 1
- Dimensions: 10.80" h x .70" w x 8.40" l, 1.61 pounds
- Binding: Paperback
- 384 pages

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Editorial Review

From the Back Cover

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- All of the chapters are updated with the latest technology.
- New chapters are included on oxygenated fuels; propane, CNG, LNG, and synthetic fuels; and electric and plug-in electric vehicles.
- New information has been added on HV battery testing using a scan tool and procedures for HV battery reconditioning.
- A new sample ASE-type certification test for Hybrid/Electric Vehicle Specialist (L3) has been added in Appendix 1.
- An updated NATEF correlation chart for hybrid electric vehicles tasks is included in Appendix 2.

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About the Author

Jim Halderman brings a world of experience, knowledge, and talent to his work. His automotive service experience includes working as a flat-rate technician, a business owner, and a professor of automotive technology at a leading U.S. community college for more than 20 years. He has a Bachelor of Science degree from Ohio Northern University and a Master's degree in Education from Miami University in Oxford, Ohio. Jim also holds a U.S. Patent for an electronic transmission control device. He is an ASE certified Master Automotive Technician and is also Advanced Engine Performance (L1) ASE certified. Jim is the author of many automotive textbooks, all published by Pearson Education. Jim has presented numerous technical seminars to national audiences, including the California Automotive Teachers (CAT) and the Illinois College Automotive Instructor Association (ICAIA). He is also a member and presenter at the North American Council of Automotive Teachers (NACAT). Jim was also named Regional Teacher of the Year by General Motors Corporation and outstanding alumni of Ohio Northern University.

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