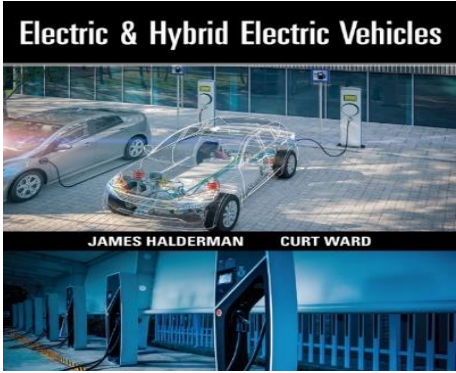
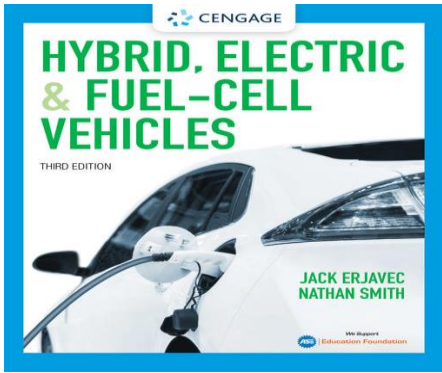
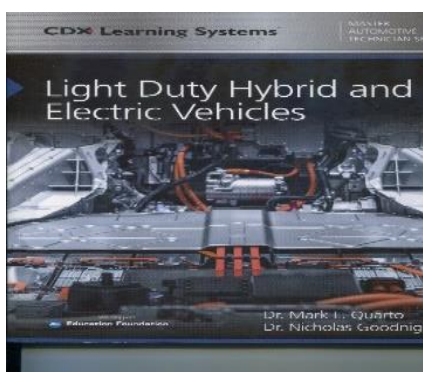
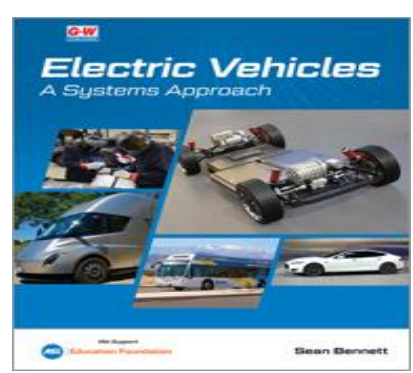


EV and HEV Comparison Chart

			
Pearson	Cengage	CDX	Goodheart-Wilcox
First edition	Third edition	First Edition	First Edition
2023 copyright	2023 copyright	2023 copyright	2024 Copyright
ISBN 9780137532124	ISBN-13: 9781305952577	ISBN 9781284198010	ISBN-13: 978-1-68584-267-3
<p style="text-align: center;">20 chapters (311 Pages, 397 figures, 6 photo sequences)</p> <ol style="list-style-type: none"> 1. Hybrid and Electric Vehicle Safety 2. Introduction to Electric and Hybrid Electric Vehicles 3. Health and Environmental Concerns 4. Hybrid Engine Systems 5. Hybrid and Electric Vehicles Preventative Maintenance 6. Digital Storage Oscilloscopes 7. Energy and Power 8. Advanced Electricity and Electronics 9. Low-Voltage Batteries and Stop-Start Systems 10. High-Voltage Batteries 11. EV and HEV Motors, Converters and Inverters 12. EV and PHEV Charging 13. Electric Vehicle Charging Equipment 14. Regenerative Brakes 15. Electric Power Steering 16. EV and HEV HVAC 17. EV and HEV Transmissions 18. EV and HEV ADAS 19. Fuel Cells and Advanced Technologies 20. First Responder Procedures 	<p style="text-align: center;">12 chapters (191 Pages, 290 figures, 0 photo sequences)</p> <ol style="list-style-type: none"> 1. Introduction to Hybrid and Electric Vehicles 2. Hybrid and Electric Vehicle Service Safety 3. Electrical Basics 4. Hybrid and Electric Vehicle Service and Maintenance 5. Battery Basics 6. Motor and Generator 7. High Voltage Control. 8. Hybrid and Battery Electric Vehicle Support Systems 9. Hybrid Vehicle Operation 10. Electric Vehicle Operation 11. Diagnostic Strategies 12. Alternative Fuels and Future Technology 	<p style="text-align: center;">10 Chapters (298 pages, 420 figures, 9 photo sequences)</p> <ol style="list-style-type: none"> 1. Hybrid and Electric Vehicle High-Voltage Safety 2. Advanced Internal Combustions Engine Technologies 3. Battery Chemistry Technologies 4. Power Inverters, Converters and Regenerative Braking Systems 5. Electric Machine Drive Systems 6. Electric Vehicle Thermal Control Systems 7. Micro, Mild and Two-Mode Hybrid Vehicle Technologies 8. Extended-range Electric Vehicles and Fuel Cell Technologies 9. Automotive Vehicle Connectivity 10. Autonomous and Collision Avoidance Systems 	<p style="text-align: center;">15 Chapters (409 pages, 466 figures, 0 photo sequences)</p> <ol style="list-style-type: none"> 1. Introduction to Electric Vehicle Drive Trains 2. General Service Facility Safety 3. High-Voltage Electricity Safety 4. High-Voltage Drive Train Topology 5. Adapting the ICE and Transmission for HEV Drive 6. Fuel Cell Source Power 7. Electrical Energy Storage Systems 8. CAN Bus and Electronic Control Systems 9. Drive Train Electricity and Electronics 10. Traction Motors 11. Charging and Hydrogen Refueling 12. Training Standards 13. Specialty Tools, Circuit Isolation, and First Responder Practices 14. Service and Diagnostic Routines 15. Alternative Electric Vehicle Applications

<p>In Text Features: Learning Objectives Key Terms Case Studies Tech Tips Photo Sequences Frequently Asked Questions Warnings Cautions Summaries Review Questions Chapter Quiz</p>	<p>In Text Features: Learning Objectives Key Terms Review Questions Cautions Warnings</p>	<p>In-Text Features Learning Objectives Photo Sequences Wrap- Up (summary) Key Terms (defined) Review Questions (multiple choice) ASE Technician A and B Style Questions</p>	<p>In-Text Features Objectives Technical Terms Summary Review Questions Tech Tips Cautions Warnings</p>
<p>Advantages 1. Written by automotive instructors, for automotive instructors to use in their classroom to teach future automotive service technicians. 2. Practical information throughout including case studies and tech tips including author photos that make the subject come alive. 3. Many full-color photos and line drawings are used to help explain the technical content.</p> <p>Disadvantages None</p> <p>Features/Text that is missing that other titles include: 1. Electric construction and commercial vehicles. (G-W) 2. Fewer photo sequences compared to CDX. 3. Slightly fewer figures compared to CDX and G-W</p>	<p>Advantages 1. Short textbook that covers most of the technical aspects of EV and HEVs. 2. Many half-page line drawings and photos.</p> <p>Disadvantages 1. Little if any practical type information such as case stories or tech tips that help make the subject more interesting and useful. 2. Weird organization that would make this textbook hard to teach from.</p> <p>Features/Text that is missing that the Pearson title includes: 1. Photo sequences 2. More chapters and clarity of chapters 3. Sidebars such as Tech Tips, FAQs, and Case Studies</p>	<p>Advantages 1. The textbook covers most of the technical aspects of EV and HEVs. 2. A mix of photos and line drawings are used to help explain the technical content.</p> <p>Disadvantages 1. Long sections of straight text would make it hard for students to keep focused on the topics. 2. Lacks tech tips and case studies that are used in the Pearson text to surround the student with practical real-world experiences.</p> <p>Features/Text that is missing that the Pearson title includes: 1, Photo sequences 2.More chapters and clarity of chapters 3.Sidebars such as Tech Tips, FAQs, and Case Studies</p>	<p>Advantages 1. While this title is about 100 pages longer, this is mainly due to the use of full- and half-page size line drawings. 2. Include electric construction and commercial vehicles.</p> <p>Disadvantages 1. Limited information on hybrid electric vehicles (HEVs). 2. Limited practical information that would be helpful to the service technician such as case studies or technicians' tips.</p> <p>Features/Text that is missing that the Pearson title includes: 1, Photo sequences 2.More chapters and clarity of chapters 3.Sidebars such as FAQs and Case Studies</p>