



# Automotive Technology: A Systems Approach

By Jack Erjavec



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This comprehensive textbook covers the theory of operation, diagnostics, and repair procedures for each system and subsystem of late model domestic and imported automobiles and light trucks. The new edition is published in full color for the first time, including all new step-by-step photo sequences to help users visualize and identify common repair procedures. The technical content has been both updated and improved. An emphasis is placed upon providing the best possible coverage of key topics virtually all automotive technicians must know electricity-electronics, engine performance, steering and suspension and brakes. "Hot Topics" such as the use of diagnostic equipment (including lab scopes), hazardous materials management, OBDII, electronic automatic transmissions, anti-lock braking systems, air-conditioning refrigerants and retrofitting, passive restraint systems and many others have been expanded and updated. Key new teaching tools, including 100 full-color transparency acetates, and Power-Point based lecture outlines, have been added to make the teaching package the best available. This textbook is also accompanied by an extensive Tech Manual that includes an all-new electronic study guide.

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### Editorial Review

#### Review

SECTION 1: AUTOMOTIVE TECHNOLOGY: The Automotive Industry. Working Safely in the Shop. Automotive Systems. Shop Tools. Diagnostic Equipment. SECTION 2: ENGINES: Automotive Engines. Engine Disassembly. Short Blocks. Cylinder Heads and Valves. Camshafts and Valve Trains. Lubricating and Cooling Systems. Intake and Exhaust Systems. Engine Sealing and Reassembly. SECTION 3: ELECTRICITY: Basics of the Electrical Systems. Basics of Electronics. Batteries: Theory and Service. Starting Systems. Charging Systems. Lighting Systems. Electrical Instrumentation and Accessories. SECTION 4: ENGINE PERFORMANCE: Ignition Systems. Ignition System Service. Fuel Systems. Fuel System Diagnosis and Service. Carburetors. Carburetor Diagnosis and Service. Fuel Injection. Fuel Injection Diagnosis and Service. Emission Control Systems. Emission Control System Diagnosis and Service. On Board Diagnostic Systems. On Board Diagnostic System Diagnosis and Service. SECTION 5: MANUAL TRANSMISSIONS AND TRANSAXLES: Clutches. Manual Transmissions and Transaxles. Manual Transmission and Transaxle Service. Drive Axles and Differentials. SECTION 6: AUTOMATIC TRANSMISSIONS AND TRANSAXLES: Automatic Transmissions and Transaxles. Automatic Transmission and Transaxle Service. Four- and All-Wheel Drive. SECTION 7: SUSPENSION AND STEERING SYSTEMS: Tires and Wheels. Suspension Systems. Steering Systems. Wheel Alignment. SECTION 8: BRAKES: Brake Systems. Drum Brakes. Disc Brakes. Antilock Brake Systems. SECTION 9: PASSENGER COMFORT: Heating and Air Conditioning. Heating and Air Conditioning Diagnosis and Service. Other Comfort, Safety, and Security Equipment.

#### About the Author

Jack Erjavec has become a fixture in the automotive textbook publishing world. He has decades of experience as a technician, educator, author, and editor, and has authored or co-authored more than 30 automotive textbooks and training manuals. Erjavec holds a master's degree in vocational and technical education from Ohio State University, and he spent twenty years at Columbus State Community College as an instructor and administrator. A long-time affiliate of the North American Council of Automotive Teachers, he also served as executive vice-president for the organization and spent several years on its board of directors. Erjavec is also associated with ATMC, SAE, ASA, ATRA, AERA, and other automotive professional associations.

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