



Modern Diesel Technology: Diesel Engines

By Sean Bennett

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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 guide helps aspiring technicians develop the knowledge and skills they need to service modern, computer-controlled diesel engines. The book 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 NATEF 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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Editorial Review

Review

1. Safety. 2. Hand and Shop Tools. 3. Engine Fundamentals. 4. Piston Assemblies, Crankshafts, Flywheels, and Dampers. 5. Timing Geartrains, Camshafts, Tappets, Rockers, and Cylinder Valves. 6. Cylinder Blocks, Liners, Cylinder Heads, Rocker Housings, Oil Pans, and Manifolds. 7. Lubricating Oil and Lubrication Systems. 8. Coolant and Cooling Systems. 9. Intake and Exhaust Systems and Turbochargers. 10. Engine Brakes. 11. Engine Service Procedure. 12. Engine Removal, Disassembly, Cleaning, Inspection, and Reassembly. 13. Fuel Subsystems. 14. Injector Nozzles. 15. Engine Management Electronics. 16. Diesel Fuel Injection Systems. 17. Emissions.

About the Author

Sean Bennett is a former program coordinator for the Truck and Diesel Department at Centennial College, as well as a former corporate trainer for Mack Trucks. During a 20-year tenure at the college he authored new curricula, helped overhaul existing course offerings, and chaired a wide range of curriculum development committees for the Province of Ontario. Mr. Bennett has written more than 30 books dealing with diesel, truck, heavy equipment, and automotive technology and currently devotes his career to technical writing and speaking engagements. He is an active member of the American Trucking Association's Technology and Maintenance Council, the Association of Diesel Specialists, the Society of Automotive Engineers, and the North American Council of Automotive Teachers. He is widely regarded as the foremost author in medium- and heavy-duty truck technology.

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