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## Automotive Engine Repair and Rebuilding (Chek Chart) Package (4th Edition)

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By Rehkopf, Jeffrey J.

Prentice Hall, 2004. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: INTRODUCTION TO AUTOMOTIVE ENGINE REPAIR. 1. Engine Operation and Construction. Engine Operation. Major Engine Components. Cylinder Arrangement. Engine Displacement and Compression Ratio. Engine Structure. Engine Systems. The Ignition System. Engine-Ignition Synchronization. Other Engine Types. 2. Engine Physics and Chemistry. Engine Physics. Engine Torque. Engine Horsepower. Chemistry and Combustion. Engine Operation and Air Pressure. Airflow Requirements. Air-Fuel Ratios. Introduction to Emission Control. Engine Design Effects on Emissions. Engine Mechanical Condition Effects on Emissions. Cooling Systems. Cooling System Function. Engine Coolant. Cooling System Components. Engine Temperature Effects on Mechanical Wear. 4. Intake and Exhaust Systems. The Intake System. The Intake Manifold. The Exhaust System. 5. Engine Lubrication. Purposes of Engine Oil. Engine Oil Composition and Additives. Engine Oil Designations. Engine Oiling System and Pressure Requirements. Engine Lubrication Effects on Mechanical Wear. 6. Engine Materials and Manufacture. Engine Materials. Metallurgy. Man-Made Materials. Manufacturing Operations. Material Treatments. Machining Operations. Materials and Machining Relationships. 7. Cylinder Blocks and Heads. Materials and Construction. Cylinder Block Design. Cylinder Heads. Cylinder Head Attachment. Miscellaneous Engine Covers. 8. Valves, Springs, Guides and Seats. Valves. Springs. Guides. Valve Guide

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