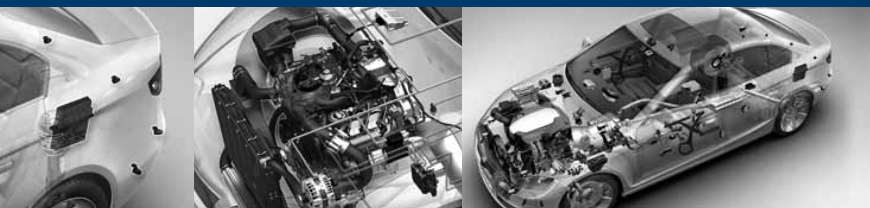


8th Edition

Automotive Handbook



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Automotive Handbook

All about automotive engineering in a pocketbook
The 8th edition has been revised and extended.

Contents – central themes

- ▶ Basic principles: physics, materials, machine parts, joining and bonding techniques
- ▶ Vehicle physics: basic terms of automotive engineering, motor-vehicle dynamics, vehicle acoustics
- ▶ Internal-combustion engines: gasoline engine, diesel engine, turbochargers and superchargers, exhaust-gas system
- ▶ Emission-control and diagnosis legislation
- ▶ Management for spark-ignition engines: manifold injection, gasoline direct injection, alternative gasoline-engine operation
- ▶ Management for diesel engines: common rail
- ▶ Alternative drives: hybrid drive, fuel cell
- ▶ Chassis systems: suspension, wheel suspensions, steering, brake systems
- ▶ Active safety: antilock braking system, driving-dynamics control system
- ▶ Lighting equipment
- ▶ Automotive electrics: vehicle electrical systems, starter batteries, electrical machines, alternators
- ▶ Automotive electronics: automotive networking, buses, architecture of electronic systems, sensors
- ▶ Driver-assistance systems: parking systems, vehicle navigation, Adaptive Cruise Control, night-vision systems

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