8th Edition

Automotive Handbook

All about automotive engineering in a pocketbook

The 8th edition has been revised and extended.

Reference handbook for academic and personal use.


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

About the Bosch Group

Bosch is one of the world’s leading suppliers to the automotive industry. The large number of applications for patents and utility models is impressive proof of the company’s leading position in automotive engineering.
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