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- 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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