



Fundamentals of Internal Combustion Engines, 2nd ed.

H.N. GUPTA

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Providing a comprehensive introduction to the basics of Internal Combustion Engines, this book is suitable for:

- Undergraduate-level courses in mechanical engineering, aeronautical engineering, and automobile engineering.
- Postgraduate-level courses (Thermal Engineering) in mechanical engineering.
- A.M.I.E. (Section B) courses in mechanical engineering.
- Competitive examinations, such as Civil Services, Engineering Services, GATE, etc.

In addition, the book can be used for refresher courses for professionals in automobile industries.

COVERAGE INCLUDES

Analysis of processes (thermodynamic, combustion, fluid flow, heat transfer, friction and lubrication) relevant to design, performance, efficiency, fuel and emission requirements of internal combustion engines.

Special topics such as reactive systems, unburned and burned mixture charts, fuel-line hydraulics, side thrust on the cylinder walls, etc.

Modern developments such as electronic fuel injection systems, electronic ignition systems, electronic indicators, exhaust emission requirements, etc.

The Second Edition includes new sections on geometry of reciprocating engine, engine performance parameters, alternative fuels for IC engines, Carnot cycle, Stirling cycle, Ericsson cycle, Lenoir cycle, Miller cycle, crankcase ventilation, supercharger controls and homogeneous charge compression ignition engines. Besides, air-standard cycles, latest advances in fuel-injection system in SI engine and gasoline direct injection are discussed in detail. New problems and examples have been added to several chapters.

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