



# IC Engines Combustion and Emissions

*B. P. Pundir*

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# IC Engines Combustion and Emissions

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## **IC Engines Combustion and Emissions** B. P. Pundir

This book introduces the reader to fundamentals of engine combustion processes and pollutant formation. Combustion thermodynamics, conceptual and thermodynamic engine combustion models, fluid motion in the cylinder, the conventional and advanced combustion systems such as for DISC, CAI, and HCCI engines are discussed. For a wider coverage on the subject, emission measurement alternative propulsion systems are included in this text. Laser based and other combustion diagnostic techniques are outlined to introduce readers to modern combustion research methods. The book attempts to present theoretical aspects and the practices including the latest developments in engine and emission control technology.

**Key Features** Presentation of fundamental concepts combined with modern technology of IC engines without neglecting analytical aspects for a better understanding of the subject by the students, the practicing engineers and professionals. The book has 240 illustrations and 75 tables of data. A number of solved example and about 120 problems are included.

Table of Contents Preface Nomenclature Introduction Thermodynamics of Combustion Combustion in SI Engines Combustion in CI Engines Engine Combustion Systems and Management Formation of Engine Emissions Emission Standards and Measurement Emission Control Technology Engine Fuels and Emissions Combustion Diagnostics Alternative Automotive Power Plants Appendices Index.

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