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Written by one of the most recognized and highly regarded names in internal combustion engines this trusted educational resource and professional reference covers the key physical

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John B. Heywood is a British mechanical engineer known for his work on automotive engine research, for authoring a number of field-defining textbooks on the internal combustion engine, and as the director of the Sloan Automotive Lab at the Massachusetts Institute of Technology (MIT).

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Internal combustion engine is a heat engine which transforms chemical energy into mechanical energy. It is used in powered aircrafts, jet engines, turbo engines, helicopters, etc. This text attempts to understand the multiple branches that fall under the discipline of internal combustion engines and how such concepts have practical applications.

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John B. Heywood has been a faculty member at the Massachusetts Institute of Technology since 1968, where he was Sun Jae Professor of Mechanical Engineering and

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Director of the Sloan Automotive Laboratory. He has published over 230 technical papers and is the author of five books, including the first edition of Internal Combustion Engine Fundamentals.

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Energy and transportation interface, Internal combustion engines, Transportation fuels. Dr. John B. Heywood has been a faculty member at MIT since 1968, where he has been Sun Jae Professor of Mechanical Engineering and director of the Sloan Automotive Laboratory. His interests are focused on internal combustion engines, their fuels, and broader studies of future transportation technology and policy, fuel supply options, and air pollutant and greenhouse gas emissions.

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This text, by a leading authority in the field, presents a fundamental and factual development of the science and engineering underlying the design of combustion engines and turbines. An extensive illustration program supports the concepts and theories discussed.

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Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. The long-awaited revision of the most respected resource on Internal Combustion Engines --covering the basics through advanced operation of spark-ignition and diesel engines. Written by one of the most recognized and highly regarded names in internal combustion engines this trusted educational resource and professional reference covers the key physical and chemical processes that govern internal combustion engine operation and design. Internal Combustion Engine Fundamentals, Second Edition, has been thoroughly revised to cover recent advances, including performance enhancement, efficiency improvements, and emission reduction technologies. Highly illustrated and cross referenced, the book includes discussions of these engines' environmental impacts and requirements. You will get complete explanations of spark-ignition and compression-ignition (diesel) engine operating characteristics as well as of engine flow and combustion phenomena and fuel

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requirements. Coverage includes:

- Engine types and their operation
- Engine design and operating parameters
- Thermochemistry of fuel-air mixtures
- Properties of working fluids
- Ideal models of engine cycles
- Gas exchange processes
- Mixture preparation in spark-ignition engines
- Charge motion within the cylinder
- Combustion in spark-ignition engines
- Combustion in compression-ignition engines
- Pollutant formation and control
- Engine heat transfer
- Engine friction and lubrication
- Modeling real engine flow and combustion processes
- Engine operating characteristics

Now in its fourth edition, this textbook remains the indispensable text to guide readers through automotive or mechanical engineering, both at university and beyond. Thoroughly updated, clear, comprehensive and well-illustrated, with a wealth of worked examples and problems, its combination of theory and applied practice aids in the understanding of internal combustion engines, from thermodynamics and combustion to fluid mechanics and materials science. This textbook is aimed at third year undergraduate or postgraduate students on mechanical or automotive engineering degrees. New to this Edition: - Fully updated for changes in technology in this fast-moving area - New material on direct injection spark engines, supercharging and renewable fuels - Solutions manual online for lecturers

Since the publication of the Second Edition in 2001, there have been considerable advances and developments in the field of internal combustion engines. These include the

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increased importance of biofuels, new internal combustion processes, more stringent emissions requirements and characterization, and more detailed engine performance modeling, instrumentation, and control. There have also been changes in the instructional methodologies used in the applied thermal sciences that require inclusion in a new edition. These methodologies suggest that an increased focus on applications, examples, problem-based learning, and computation will have a positive effect on learning of the material, both at the novice student, and practicing engineer level. This Third Edition mirrors its predecessor with additional tables, illustrations, photographs, examples, and problems/solutions. All of the software is 'open source', so that readers can see how the computations are performed. In addition to additional java applets, there is companion Matlab code, which has become a default computational tool in most mechanical engineering programs.

For a one-semester, undergraduate-level course in Internal Combustion Engines. This applied thermoscience text explores the basic principles and applications of various types of internal combustion engines, with a major emphasis on reciprocating engines. It covers both spark ignition and compression ignition engines—as well as those operating on four-stroke cycles and on two stroke cycles—ranging in size from small model airplane engines to the larger stationary engines.

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