



Engineering Fundamentals of the Internal Combustion Engine

Willard W. Pulkrabek

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This Second Edition provides updated and comprehensive coverage of the applied thermo-dynamic operating principles of the internal combustion engine. The text includes all IC engines from the largest stationary and ship engines to the smallest engines used on tools and toys, with an emphasis on reciprocating engines used in automobiles and similar applications. It covers both spark ignition and compression ignition engines-as well as those operating on four-stroke cycles and on two stroke cycles. The text covers the fundamentals of fuels, combustion, heat transfer, lubrication, and fluid mechanics as applied in the operation of IC engines. This student friendly text is illustrated with a large number of diagrams and Figures. These along with end of chapter solved and unsolved problems, a list of frequently used notations, symbols, and abbreviations enhance its value as a text. This book will be useful for the undergraduate degree and diploma courses in Mechanical Engineering. New To This Edition • Added and expanded topics-i.e., variable valve control; fuel injection; hydrogen fuel; fuel cells; and noise pollution. • Real data from actual engines. • Over 50 new worked examples and review problems-Combine with open-ended design problems in each chapter. • Added and improved figures throughout. Table of Contents Preface. Acknowledgments. Notation. 1. Introduction. 2. Operating Characteristics. 3. Engine Cycles. 4. Thermochemistry and Fuels. 5. Air and Fuel Induction. 6. Fluid Motion within Combustion Chamber. 7. Combustion. 8. Exhaust Flow. 9. Emissions and Air Pollution. 10. Heat Transfer in Engines. 11. Friction and Lubrication. Appendixes. References. Answers to Selected Review Problems.

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