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Colin R. Ferguson & Allan T. Kirkpatrick. This book presents a modern approach to the study of internal combustion engines! Building upon the foundation of the first edition, the book has been completely revised, with each chapter reorganized and updated. The purpose of the book is to apply the principles of thermodynamics, fluid mechanics, and heat transfer to the analysis of internal combustion engines.

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TAYLOR, C. (1985), The Internal Combustion Engine in Theory and Practice, Vols. 1 and 2, MIT Press, Cambridge, Massachusetts. 1.9 HOMEWORK 1.1 Compute the mean piston speed, bmep (bar), torque (Nm), and the

power per piston area for the engines listed in Table 1.2 1.2 A six-cylinder two-stroke engine with a compression ratio  $\gamma = 9$  produces a torque of 1100 Nm at a speed of 2100 rpm.

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Internal combustion engines such as reciprocating internal combustion engines produce air pollution emissions, due to incomplete combustion of carbonaceous fuel. The main derivatives of the process are carbon dioxide CO<sub>2</sub>, water and some soot—also called particulate matter (PM). The effects of inhaling particulate matter have been studied in humans and animals and include asthma, lung cancer, cardiovascular issues, and premature death.

Internal combustion engine - Wikipedia

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Dr. Colin R. Ferguson received his M.S. and Ph.D. (1975) degrees in Mechanical Engineering from the Massachusetts Institute of Technology. He taught thermal science courses at Purdue University for twelve years, performing research and publishing in the internal combustion engines area, and is currently living in California.

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