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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

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compression ratio $\lambda = 9$
produces a torque of 1100 Nm at a speed of 2100 rpm.

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produce air pollution emissions, due to incomplete combustion of carbonaceous fuel. The main derivatives of the process are carbon dioxide CO₂, 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,

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and Ph.D. (1975) degrees in Mechanical
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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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‘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.

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