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TABLE 1.2 The automotive urban air-pollution problem: typical vehicle emissions * Internal combustion engines are also an important source of noise. There are several sources of engine noise: the exhaust system, the intake system, the fan used for cooling, and the engine block surface.

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Fundamentals. by John B. Heywood

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 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, cardiovascular issues, and premature death.

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Internal combustion engine - Wikipedia
Abstract. This is an introductory article, the purpose of which is to provide fundamental information on internal combustion engines (ICEs). In Section 1, the different types of ICEs are presented, and their role in the framework of the energy conversion systems is discussed. The morphology and the basic principles of operation are also described and discussed, along with the different possible classification criteria.

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Recall some of the primary components of an internal combustion engine. Recognize elements of the fuel system, and how the elements relate to the engine. Understand some common components of the ignition

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system. Recall the elements in induction and exhaust systems. Distinguish between the various processes in the cranktrain and valvetrain systems. Recognize the automotive elements that provide cooling and lubrication.

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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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The text covers the fundamentals of fuels, combustion, heat transfer, lubrication, and fluid mechanics as applied in the operation of IC engines. Chapter topics include basic fundamentals, cycles, induction, cylinder flow, combustion, exhaust, and omissions and air pollution. Features of the Book

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