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Heat engines can be classified as in figure (1-1); external combustion type in which the working fluid is entirely separated from the fuel-air mixture (ECE), and the internal - combustion (ICE) type, in which the working fluid consists of the products

### **Dr. Mohammedali Abdulhadi & Dr. A. M. Hassan INTERNAL**

Sec. 4.1 Spark Ignition Engines 231 where  $\gamma$  is the ratio of specific heats,  $c_{ilcu}$  and  $M$  is the molecular weight of the gas; as is of the order of 500 to 1000 m/s for typical temperatures in internal combustion engines. For a cylinder 10 cm in diameter, the time required for a pressure disturbance

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