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a reference book in the field of engines. Contents include the fundamentals of most types of internal combustion engines, with a major emphasis on reciprocating engines. Both spark ignition and compression ignition engines are covered, as are those operating on four-stroke and

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air pressure of an internal combustion engine. The exhaust gas turbine extracts energy from the exhaust gas

and uses it to drive the compressor and overcome friction. In most automotive-type applications, both the compressor and turbine wheel are of the radial flow type. Some applications, such as medium- and low-speed diesel engines, can use an

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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

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2 An internal combustion engine is a device in which the chemical energy of the fuel is released inside the engine and used directly for mechanical work. I C Engines Examples: "Piston Engines "Gas Turbine Engines (Open Cycle) "Rocket Engines

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228 Internal Combustion Engines Chap. 4 2. Compression. The intake valve is closed and the rising piston compresses the fuel- air mixture. Near the top of the stroke, the spark plug is fired, igniting the mixture.

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Internal Combustion Engines (IC-engines) produce mechanical power from the chemical energy contained in the fuel, as a result of the combustion process occurring inside the engine IC engine converts chemical energy of the fuel into mechanical energy, usually made available on a rotating output shaft.

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