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The engine is now ready to begin another operating cycle. Figure 4. Exhaust stroke The diesel internal combustion engine differs from the gasoline powered Otto cycle by using a higher compression of the fuel to ignite the fuel rather than using a spark plug ("compression ignition" rather than "spark ignition").

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1.1 Fundamental operating principles 1.2 Early internal combustion engine development 1.3 Characteristics of internal combustion engines 1.4 Additional types of internal combustion engine 1.4.1 The Wankel engine 1.4.2 Stratified charge engines 1.5 Prospects for internal combustion engines 1.6 Fuel cells 1.7 Question. 2 Thermodynamic principles.

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Internal combustion engines. Heat Engines Any type of engine or machine which derives Heat Energy from the combustion of the fuel or any other source and converts this energy into Mechanical Work is known as a

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Types of Internal Combustion Engines: I.C.E. can be divided into several groups according to different features as characteristics: operating cycles, method of charging the cylinder, fuel used, general design (position and number of cylinders, method of ignition, rotating speed, etc.), and method of cooling the engine.

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

Introduction 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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Sec.1-3 Engine Classifications 5. the automobile powered by the internal combustion engine. Now, at the end of the century, the internal combustion engine is again being challenged by electricity and other forms of propulsion systems for automobiles and other applications. What goes around comes around.

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Introduction to Internal Combustion Engines 1.1 INTRODUCTION The main focus of this text is on the application of the engineering sciences, especially the thermal sciences, to internal combustion engines. The

goals of the text are to familiarize the reader with engine nomenclature, describe how internal combustion engines work, and

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(ii) Internal combustion. In a steam engine the combustion of fuel takes place outside the engine and the steam thus formed is used to run the engine. Thus, it is known as external combustion engine.

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An internal combustion engine is any engine within which the fuel is burned. The four stroke and two stroke cycle gasoline and diesel engines are examples of internal combustion engines because the combustion chamber is located within the engine. In this task, an internal combustion engine, referred to as the piston engine, will be described. 2.

### **Principles of Internal Combustion Engines**

1 INTERNAL COMBUSTION ENGINES Syllabus 1. Engine classification and engine components. 2. Air standard cycles. 3. Cycles having the Carnot efficiency. 4. Comparison of Otto, Diesel and dual cycles.

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