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Fundamentals Of Engineering Thermodynamics Study

The fundamentals of engineering thermodynamics play an important role in moving towards a better world, through improvement in performance of the plant, equipment, and their overall design. Factors that are critical in assessing the performance of the equipment are items like the output of the final product, consumption of input raw material, production cost, and assessment of the effect on environmental.

Engineering Thermodynamics: Fundamentals & Principles

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Description. This course introduces and discusses the concepts and fundamentals of temperature and thermometry, equations of state for fluids and solids, work, heat, the first law, internal energy, enthalpy, specific heats, energy equations for flow, change of phase, the second law, reversibility, entropy; combined first and second laws.

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Thermodynamics is both a branch of physics and an engineering science. The scientist is normally interested in gaining a fundamental understanding of the physical and chemical behavior of fixed, quiescent quantities of matter and uses the principles of thermodynamics to relate the properties of matter.

Chapter 12: Engineering Thermodynamics

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1 Getting Started: Introductory Concepts and Definitions. 1.1 Using Thermodynamics. 1.2 Defining Systems. 1.3 Describing Systems and Their Behavior. 1.4 Measuring Mass, Length, Time, and Force. 1.5 Specific Volume. 1.6 Pressure. 1.7 Temperature. Chapter Summary and Study Guide. 2 Energy and the First Law of Thermodynamics. 2.1 Reviewing Mechanical Concepts of Energy. 2.2 Broadening Our ...

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In the condenser of a power plant, energy is discharged by ...

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20 kg/s. The pressure of the water at the pump exit is 1 MPa. If the pump operates with negligible internal irreversibilities and negligible changes in kinetic and potential energy, determine the power required in kW

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