

Basic Thermodynamics, Lecture 1

Fundamental Concepts and Definitions

- Thermodynamics definition and scope.
- Macroscopic and Microscopic approaches.
- Some practical applications of engineering thermodynamic Systems.
- Thermodynamic System



Basic Thermodynamics Module 1 Nptel

Sebastian Brünink



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Basic Thermodynamics Evelyn Guha, 2000 The book presents a clear and simple exposition of thermodynamic principles to enable beginners to penetrate its fundamental ideas buried under a haze of abstractness and to appreciate the logical development of thermodynamic reasoning Since thermodynamics often proves conceptually difficult for the beginner care has been taken to present a clear and simple but comprehensive account of its principles Applications in various branches of physics phase transitions low temperature physics thermal radiation power and refrigeration cycles have been treated in some detail Worked examples and a set of problems accompany each chapter Basic Thermodynamics P.B. Nagaraj, 2007

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Basic Thermodynamics B. K. VENKANNA, SWATI B. V., B. K. Venkanna, B. V. Swati, 2010-07 This book provides an in depth discussion of the principles of thermodynamics It focuses on engineering applications of theory and sound techniques for solving thermodynamic problems The book presents the fundamental concepts of thermodynamics and describes the theory of work and heat The text covers in detail the first law and the second law of thermodynamics with their applications It also explains the concepts of entropy and availability and irreversibility In addition the book presents thermodynamic properties of pure substances ideal gases and mixtures of ideal gases as well as real gases This book is designed for undergraduate students of mechanical engineering industrial and production engineering automobile engineering and aeronautical engineering for their courses in thermodynamics Key Features Presents the text in a simple and elegant manner to enable the students to grasp the essentials of the subject easily and quickly Covers all types of problems of various difficulty levels Includes more than 300 worked out examples and a large number of end of chapter exercises Provides solutions to several model question papers at the end of the book Thermodynamics and Fluid Mechanics R. Kinsky, 1995

This text is an ideal introductory for 1st year mechanical engineering students Written in competency based terms the text focuses on two national modules Thermodynamics 1 EA714 and Fluid Mechanics 1 EA70 6 Each chapter reflects the learning outcomes for the modules Special Price 57 00 Textbook Promo until 31 05 05 **Basic Thermodynamics** Kannappa

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