
Introduction To Chemical Engineering Thermodynamics 7th Edition Pdf Free Download

Publisher: Publisher, New York, 1965. 1st. impression. 410 + xii + 364 pages. Pp. 1-iv and 304. Price: \$2.65. U.S. University Press. ABSTRACT The purpose of the text is to provide a complete introductory treatment of thermodynamics for chemical engineers and students of chemical engineering. There are sections on the chemistry of systems and on the physical aspects of heat transfer. The problem of the use of thermodynamics in chemical engineering is treated at the end. The text is intended to be useful for introductory chemical engineering courses in both colleges and universities. It covers the mathematical treatment of thermodynamics and differential equations and the subject of chemical reactions. The chemical engineering chapter of this book follows the major areas of thermodynamics, from the motion of the atoms, to the motion of the molecules, to the work done by chemical reactions, and on to the use of thermodynamics in design of chemical processes. Section II, "The Chemistry of Chemical Systems," and section III, "Transport Phenomena," present the classical results of chemical thermodynamics in a manner which is useful to chemical engineers. The text is intended for the use of students of chemical engineering who need a basic understanding of chemical thermodynamics in addition to the chemical engineering course. It can be used with appropriate modifications to serve as a text in thermodynamics courses in chemical engineering, engineering chemistry, chemical engineering, and the like. The text is for the use of chemical engineers, chemists, physical chemists, biochemists, and students of chemical engineering. The book is written in the "chemical engineering" form of exposition. In a chemical engineering course the topics are introduced in the order of increasing complexity. The first chapter presents a few points of traditional chemistry and gives a brief introduction to chemical thermodynamics. The second chapter gives a rather detailed description of the motion of the atoms and of simple molecules, and the operation of chemical reactions. The third chapter presents the basic results of chemical thermodynamics. The fourth chapter is devoted to the problem of the use of thermodynamics in design of chemical processes. The fifth chapter deals with the thermodynamics of heat engines and heat pumps. In a design course of this type the topics are introduced in the order of increasing complexity. The book is divided into four parts. The first part contains ten chapters. In the introduction the purpose of the book and the relationship of the text to other texts in the field is discussed. Chapters 1 to 4 deal with basic

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