

Introduction to Chemical Engineering Thermodynamics

By Gopinath Halder

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This book provides a comprehensive introduction to the principles of chemical engineering thermodynamics and also introduces the student to the application of principles to various practical areas. Though intended primarily for undergraduate students of Chemical Engineering, the book will also be useful for postgraduate students of the subject as well as professionals in the relevant fields.

The book emphasizes the role of the fundamental principles of thermodynamics in the derivation of significant relationships between the various thermodynamic properties. The initial chapter provides an overview of the basic concepts and processes, and discusses the important units and dimensions involved. The ensuing chapters, in a logical presentation, thoroughly cover the first and second laws of thermodynamics, the heat effects, the thermodynamic properties and their relations, the flow, refrigeration and liquefaction processes, and the equilibria between phases and in chemical reactions.

The book is suitably illustrated with a large number of visuals. It contains numerous solved examples in each chapter, as well as solved model question papers and a set of 360 multiple-choice questions at the end of the book, to help students develop problem-solving skills. Plentiful exercises at the end of each chapter help develop the students' ability and confidence in the application of the underlying concepts.

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