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undergraduate level text focuses on three lines of the development of contemporary chemical structural theory the classical theory of bonding in molecules the ionic interpretation of electrolyte solutions and the physical theory of atomic structure 186 illustrations 1969 edition

enables chemical engineering students to bridge theory and practice integrating scientific principles with practical engineering experience this text enables readers to master the fundamentals of chemical processing and apply their knowledge of such topics as material and energy balances transport phenomena reactor design and separations across a broad range of chemical industries the author skillfully guides readers step by step through the execution of both chemical process analysis and equipment design principles of chemical engineering practice is divided into two sections the macroscopic view and the microscopic view the macroscopic view examines equipment design and behavior from the vantage point of inlet and outlet conditions the microscopic view is focused on the equipment interior resulting from conditions prevailing at the equipment boundaries as readers progress through the text they ll learn to master such chemical engineering operations and equipment as separators to divide a mixture into parts with desirable concentrations reactors to produce chemicals with needed properties pressure changers to create favorable equilibrium and rate conditions temperature changers and heat exchangers to regulate and change the temperature of process streams throughout the book the author sets forth examples that refer to a detailed simulation of a process for the manufacture of acrylic acid that provides a unifying thread for equipment sizing in context the manufacture of hexyl glucoside provides a thread for process design and synthesis presenting basic thermodynamics principles of chemical engineering practice enables students in chemical engineering and related disciplines to master and apply the fundamentals and to proceed to more advanced studies in chemical engineering

the study guide reflects the unique problem solving approach taken by the chemical principles text the new edition of the study guide includes many new worked out examples

best selling introductory chemical engineering book now updated with far more coverage of biotech nanotech and green engineering thoroughly covers material balances gases liquids and energy balances contains new biotech and bioengineering problems throughout

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this text is designed for a rigorous course in introductory chemistry its central theme is to challenge students to think and question while providing a sound foundation in the principles of chemistry

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the study guide reflects the unique problem solving approach taken by the chemical principles text the new edition of the study guide includes many new worked out examples

elementary principles of chemical processes 4th edition student international version prepares students to formulate and solve material and

energy balances in chemical process systems and lays the foundation for subsequent courses in chemical engineering the text provides a realistic informative and positive introduction to the practice of chemical engineering

chemistry from first principles examines the appearance of matter in its most primitive form it features the empirical rules of chemical affinity that regulate the synthesis and properties of molecular matter analyzes the compatibility of the theories of chemistry with the quantum and relativity theories of physics formulates a consistent theory based on clear physical pictures and manageable mathematics to account for chemical concepts such as the structure and stability of atoms and molecules this text also explains the self similarity between space time nuclear structure covalent assembly biological growth planetary systems and galactic conformation

written for general chemistry courses chemical principles helps students develop chemical insight by showing the connection between chemical principles and their applications

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