

# Elementary Principles Of Chemical Processes

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elementary principles of chemical processes 4th edition 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

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this book deals with the design and integration of chemical processes emphasizing the conceptual issues that are fundamental to the creation of the process chemical process design requires the selection of a series of processing steps and their integration to form a complete manufacturing system the text emphasizes both the design and selection of the steps as individual operations and their integration also the process will normally operate as part of an integrated manufacturing site consisting of a number of processes serviced by a common utility

system the design of utility systems has been dealt with in the text so that the interactions between processes and the utility system and interactions between different processes through the utility system can be exploited to maximize the performance of the site as a whole chemical processing should form part of a sustainable industrial activity for chemical processing this means that processes should use raw materials as efficiently as is economic and practicable both to prevent the production of waste that can be environmentally harmful and to preserve the reserves of raw materials as much as possible processes should use as little energy as economic and practicable both to prevent the build up of carbon dioxide in the atmosphere from burning fossil fuels and to preserve reserves of fossil fuels water must also be consumed in sustainable quantities that do not cause deterioration in the quality of the water source and the long term quantity of the reserves aqueous and atmospheric emissions must not be environmentally harmful and solid waste to landfill must be avoided finally all aspects of chemical processing must feature good health and safety practice it is important for the designer to understand the limitations of the methods used in chemical process design the best way to understand the limitations is to understand the derivations of the equations used and the assumptions on which the equations are based where practical the derivation of the design equations has been included in the text the book is intended to provide a practical guide to chemical process design and integration for undergraduate and postgraduate students of chemical engineering practicing process designers and chemical engineers and applied chemists working in process development examples have been included throughout the text most of these examples do not require specialist software and can be performed on spreadsheet software finally a number of exercises have been added at the end of each chapter to allow the reader to practice the calculation procedures

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text to introduce students to chemical engineering featuring an abridged print companion elementary principles of chemical processes 4th edition provides an introduction to chemical processes it prepares students to formulate and solve material and energy balances in chemical process systems readers are provided a foundation for future chemical engineering coursework the text includes biomedical biochemical biomolecular environmental energy materials and safety applications the set includes an epub reg card

this comprehensive work shows how to design and develop innovative optimal and sustainable chemical processes by applying the principles of process systems engineering leading to integrated sustainable processes with green attributes generic systematic methods are employed supported by intensive use of computer simulation as a powerful tool for mastering the complexity of physical models new to the second edition are chapters on product design and batch processes with applications in specialty chemicals process intensification methods for designing compact equipment with high energetic efficiency plantwide control for managing the key factors affecting the plant dynamics and operation health safety and environment issues as well as sustainability analysis for achieving high environmental performance all chapters are completely rewritten or have been revised this new edition is suitable as teaching material for chemical process and product design courses for graduate msc students being compatible with academic requirements world wide the inclusion of the newest design methods will be of great value to professional chemical engineers systematic approach to developing innovative and sustainable chemical processes presents generic principles of process simulation for analysis creation and assessment emphasis on sustainable development for the future of process industries

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