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completely revised updated and enlarged this second edition now contains a subchapter on biorecognition assays plus a chapter on bioprocess control added by the new co author jun ichi horiuchi who is one of the leading experts in the field the central theme of the textbook remains the application of chemical engineering principles to biological processes in general demonstrating how a chemical engineer would address and solve problems to create a logical and clear structure the book is divided into three parts the first deals with the basic concepts and principles of chemical engineering and can be read by those students with no prior knowledge of chemical engineering the second part focuses on process aspects such as heat and mass transfer bioreactors and separation methods finally the third section describes practical aspects including medical device production downstream operations and fermenter engineering more than 40 exemplary solved exercises facilitate understanding of the complex engineering background while self study is supported by the inclusion of over 80 exercises at the end of each chapter which are supplemented by the corresponding solutions an excellent comprehensive introduction to the principles of biochemical engineering

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in recent years chemical engineers have become increasingly involved in the design and synthesis of new materials and products as well as the development of biological processes and biomaterials such applications often demand that product properties be controlled with precision molecular modeling simulating chemical and molecular structures or processes by computer aids scientists in this endeavor volume 28 of advances in chemical engineering presents discussions of theoretical and computational methods as well as their applications to specific technologies

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downstream processing is an essential practice in the production and purification of biosynthetic materials which is especially important in the production of pharmaceutical products this book covers the fundamentals and the design concepts of various downstream recovery and purification steps unit operations involved in biochemical and chemic

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biochemical engineering fundamentals 2 e combines contemporary engineering relevant biological concepts in a comprehensive introduction to biochemical engineering the biological background provided enables students to comprehend the major problems in biochemical engineering and formulate effective solutions

in this newly revised 5th edition of chemical and engineering thermodynamics sandler presents a modern applied approach to chemical thermodynamics and provides sufficient detail to develop a solid understanding of the key principles in the field the text confronts current information on environmental and safety issues and how chemical engineering principles apply in biochemical engineering bio technology polymers and solid state processing this book is appropriate for the undergraduate and graduate level courses

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