



## Biochemical Engineering: Principles and Concepts, Third Edition

By Syed Tanveer Ahmed Inamdar

PHI Learning, 2012. Softcover. Book Condition: New. 3rd edition. The book, now in its Third Edition, continues to offer the basic concepts and principles of biochemical engineering. It covers the curriculum for a first-course in Biochemical Engineering at the undergraduate level of Chemical Engineering discipline and also caters to the requirements of BTech Biotechnology and BSc Biotechnology offered by various universities. The text first explains the basics of microbiology and biochemistry before moving on to explore the significance of enzymes, their properties, types, kinetics, industrial applications, production and formulation and the methods of their immobilization. It also deals with cell growth and its kinetic aspects and discusses various types of biological reactors with an emphasis on key engineering practices related to fermentation processes and products, bioreactor design and operation. It offers a complete description on downstream processing and control of microorganisms. Besides, it also covers in the appendices some important topics such as process kinetics and reactor analysis, bioenergetics, and environmental microbiology to justify their relevance in biochemical engineering. NEW TO THIS EDITION : Offers a complete description with applications and configurations of membrane bioreactors (Chapter 7). Presents a facelift of downstream processes in the topics, viz. disruption of cells...



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