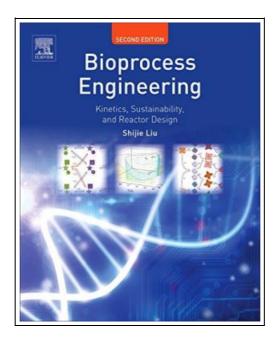
# **Bioprocess Engineering**



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## Reviews

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Condition: New. Publisher/Verlag: Elsevier Books | Kinetics, Sustainability, and Reactor Design | Bioprocess Engineering: Kinetics, Sustainability, and Reactor Design, Second Edition, provides a comprehensive resource on bioprocess kinetics, bioprocess systems, sustainability, and reaction engineering. Author Dr. Shijie Liu reviews the relevant fundamentals of chemical kinetics, batch and continuous reactors, biochemistry, microbiology, molecular biology, reaction engineering, and bioprocess systems engineering, also introducing key principles that enable bioprocess engineers to engage in analysis, optimization, and design with consistent control over biological and chemical transformations. The quantitative treatment of bioprocesses is the central theme in this book, with more advanced techniques and applications being covered in depth. This updated edition reflects advances that are transforming the field, ranging from genetic sequencing, to new techniques for producing proteins from recombinant DNA, and from green chemistry, to process stability and sustainability. The book introduces techniques with broad applications, including the conversion of renewable biomass, the production of chemicals, materials, pharmaceuticals, biologics, and commodities, medical applications, such as tissue engineering and gene therapy, and solving critical environmental problems. Includes the mechanistic description of biotransformations and chemical transformations Provides quantitative descriptions of bioprocessesContains extensive illustrative drawings, which make the understanding of the subject easyIncludes bioprocess kinetics and reactor analysis Contains examples of the various process parameters, their significance, and their specific practical uselncorporates sustainability concepts into the various bioprocesses | Chapter 1. IntroductionChapter 2. An Overview of Biological BasicsChapter 3. An Overview of Chemical Reaction AnalysisChapter 4. Batch ReactorChapter 5. Ideal Flow ReactorsChapter 6. Kinetic Theory and Reaction KineticsChapter 7 Parametric EstimationChapter 8 . EnzymesNEW! Chapter 9. Allosteric Enzymes and Regulations9.1. Reactions in Life9.2. Allostericity and cooperativity9.2.1 Single binding site and saturation binding9.2.2 Multiple binding sites and Morpheein mechanism9.3. Enzyme binding and transport9.4. Kinetics of allosteric enzyme9.5. Allosteric regulations9.6. SummaryRecommended  $Reading\ Materials Problems NEW!\ Chapter\ 10.\ Adsorption 10.1\ Introduction 10.2\ Thermodynamics\ of...$ 



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