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Bioprocess Engineering Kinetics,
Sustainability, and Reactor

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DesignNewnes

Bioprocess Engineering

The ability of the United States to sustain a dominant global position in biotechnology lies in maintaining its primacy in basic life-science research and

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developing a strong resource base for bioprocess engineering and bioproduct manufacturing. This book examines the status of bioprocessing and biotechnology in the United States; current bioprocess technology, products,

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and opportunities; and challenges of the future and what must be done to meet those challenges. It gives recommendations for action to provide suitable incentives to establish a national program in bioprocess-engineering research,

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development, education, and
technology transfer.

Kinetics, Sustainability, and
Reactor Design

***Bioprocess Engineering involves
the design and development of
equipment and processes for the***

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manufacturing of products such as food, feed, pharmaceuticals, nutraceuticals, chemicals, and polymers and paper from biological materials. It also deals with studying various biotechnological processes. "Bioprocess Kinetics and Systems Engineering" first of

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its kind contains systematic and comprehensive content on bioprocess kinetics, bioprocess systems, sustainability and reaction engineering. Dr. Shijie Liu reviews the relevant fundamentals of chemical kinetics-including batch and continuous reactors,

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***biochemistry, microbiology,
molecular biology, reaction
engineering, and bioprocess
systems engineering- introducing
key principles that enable
bioprocess engineers to engage in
the analysis, optimization, design
and consistent control over***

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biological and chemical transformations. The quantitative treatment of bioprocesses is the central theme of this book, while more advanced techniques and applications are covered with some depth. Many theoretical derivations and simplifications are used to

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demonstrate how empirical kinetic models are applicable to complicated bioprocess systems. Contains extensive illustrative drawings which make the understanding of the subject easy Contains worked examples of the various process parameters, their

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***significance and their specific
practical use Provides the theory of
bioprocess kinetics from simple
concepts to complex metabolic
pathways Incorporates
sustainability concepts into the
various bioprocesses
Putting Biotechnology to Work***