

BIOPROCESS ENGINEERING PRINCIPLES

Third Edition



Pauline M. Doran, Kate Morrissey,
and Ross P. Carlson



Bioprocess Engineering Principles Second Edition

Michael L. Shuler, Fikret Kargı



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Bioprocess Engineering Principles Pauline M. Doran, 2013 The emergence and refinement of techniques in molecular biology has changed our perceptions of medicine agriculture and environmental management This textbook presents the principles of bioprocess engineering in a way that is accessible to biological scientists **Bioprocess Engineering** Michael L. Shuler, Fikret Kargi, 2002 This concise yet comprehensive text introduces the essential concepts of bioprocessing internal structure and functions of different types of microorganisms major metabolic pathways enzymes microbial genetics kinetics and stoichiometry of growth and product information to traditional chemical engineers and those in related disciplines It explores the engineering principles necessary for bioprocess synthesis and design and illustrates the application of these principles to modern biotechnology for production of pharmaceuticals and biologics solution of environmental problems production of commodities and medical applications *Bioprocess Engineering Principles* Ross Carlson, Kate Morrissey, Pauline M. Doran, 2024-09-27 Bioprocess Engineering Principles Third Edition provides a solid introduction to bioprocess engineering for students with a limited engineering background The book explains process analysis from an engineering perspective using worked examples and problems that relate to biological systems Application of engineering concepts is illustrated in areas of modern biotechnology such as recombinant protein production bioremediation biofuels drug development and tissue engineering as well as microbial fermentation With new and expanded material this remains the book of choice for students seeking to move into bioprocess engineering Includes more than 350 problems that demonstrate how fundamental principles are applied in areas such as biofuels bioplastics bioremediation tissue engineering site directed mutagenesis recombinant protein production and drug development as well as for traditional microbial fermentation Provides in depth treatment of fluid flow turbulence mixing and impeller design reflecting recent advances in our understanding of mixing processes and their importance in determining the performance of cell cultures Focuses on underlying scientific and engineering principles rather than on specific biotechnology applications providing a sound basis for teaching bioprocess engineering Presents new or expanded coverage of such topics as enzyme kinetics downstream processing disposable reactors genetic engineering and the technology of fermentation **Cell Culture Bioprocess Engineering, Second Edition** Wei-Shou Hu, 2020-03-06 This book is the culmination of three decades of accumulated experience in teaching biotechnology professionals It distills the fundamental principles and essential knowledge of cell culture processes from across many different disciplines and presents them in a series of easy to follow comprehensive chapters Practicality including technological advances and best practices is emphasized This second edition consists of major updates to all relevant topics contained within this work The previous edition has been successfully used in training courses on cell culture bioprocessing over the past seven years The format of the book is well suited to fast paced learning such as is found in the intensive short course since the key take home messages are prominently highlighted in panels The book is also well suited

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