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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 Bibliography of Agriculture with Subject Index ,1993-10 fermentation **Biochemical Reaction Engineering** Kaustubha Mohanty, Soumya Sasmal, 2024-12 This book covers fundamental aspects of biochemical engineering such as Enzyme catalyzed reaction kinetics Catalytic antibodies and Non protein biomolecules as catalysts process flow diagram piping instrumentation diagram Wastewater Treatment processes Design of fermenters and Mass and energy balance along Bioprocess Engineering Michael L. Shuler, Fikret Kargi, 2002 This concise yet comprehensive text with MATLAB codes 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

<u>Bioprocess Engineering</u> Michael L. Shuler, Fikret Kargı, 1992 Textbook for junior and senior level majors in chemical engineering covering the field of biochemical engineering

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