

BIOPROCESS ENGINEERING

BASIC CONCEPTS

Solution manual

THIRD EDITION

MICHAEL L. SHULER • FIKRET KARGI • MATTHEW P. DELISA



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Pauline M. Doran, 1997 *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

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