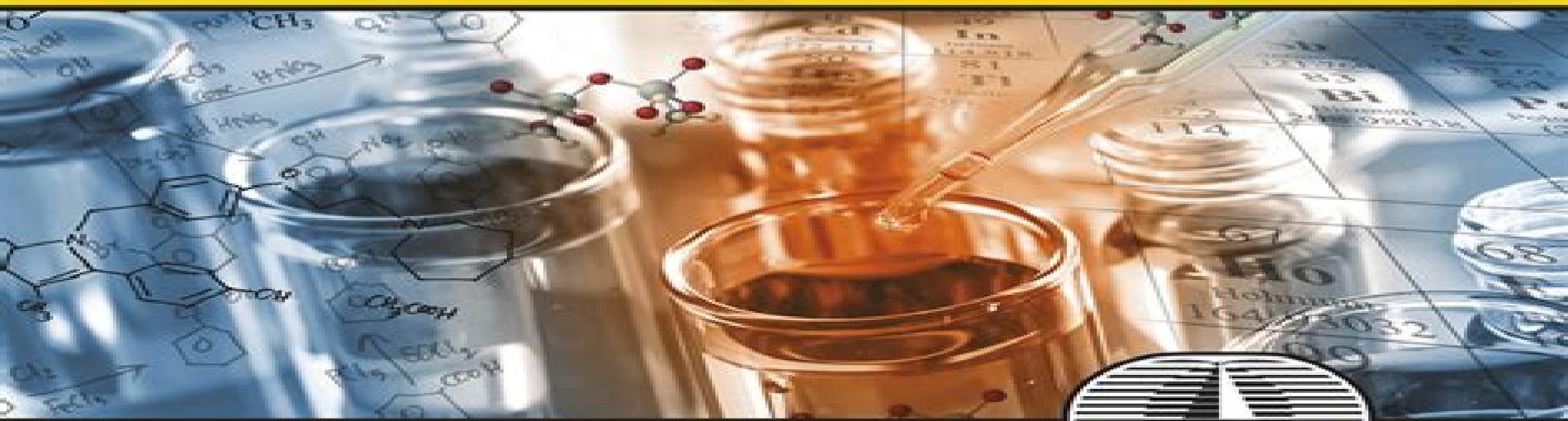


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Mohamed Ghoul,2025-01-09 The use of bioreactors in food ingredient production has expanded rapidly in recent years These processes create a controlled environment that is tailored to the specific needs of each microorganism while also minimizing their environmental impact However to optimize the implementation of these processes it is necessary to master a number of scientific concepts relating to material and heat balances thermodynamics microbial kinetics extrapolation and agitation techniques as well as the techno economic analysis of processes This book aims to provide an exhaustive and precise presentation of all of these concepts making them accessible to students researchers and professionals alike Bioreactor Implementation in the Agro Food Industries is structured in two complementary parts The first part outlines the essential principles of bioreactor engineering This knowledge is essential if we are to master the biological and physico chemical processes that take place in bioreactors The second part presents practical examples of the use of bioreactors for the production of several ingredients and metabolites of interest

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From Biotechnology To Bioindustry

Seung Wook Kim, Kyung Yeon Kim,2019-05-23 Biotechnology S. C. Rastogi,2007 Biotechnology Principles and Applications covers the broad vistas of biotechnology providing students with a sound basis of understanding various aspects of this ever growing field It is intended to be comprehensive and to meet the varied needs of different institutions The book includes a wide coverage of topics needed to appreciate the principles and applied aspects of biotechnology

Bioprocess Engineering Michael L. Shuler,Fikret Kargi,Matthew DeLisa,2017-03-29 The Leading Introduction to Biochemical and Bioprocess Engineering Updated with Key Advances in Productivity Innovation and Safety Bioprocess Engineering Third Edition is an extensive update of the world s leading introductory textbook on biochemical and bioprocess engineering and reflects key advances in productivity innovation and safety The authors review relevant fundamentals of biochemistry microbiology and molecular biology including enzymes cell functions and growth major metabolic pathways alteration of

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