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John Ingham, and Jiri E. Flarek

# Biological Reaction Engineering

Dynamic Modeling Fundamentals  
With 3D-Interactive Simulations Examples  
Third, Completely Revised and Enlarged Edition



# Biological Reaction Engineering

**Wei Luo, Maria Ciurea, Santosh Kumar**



## **Biological Reaction Engineering:**

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Catapano, Peter Czermak, 2008-09-30 The completion of the Human Genome Project and the rapid progress in cell biology and biochemical engineering are major forces driving the steady increase of approved biotech products especially biopharmaceuticals in the market Today mammalian cell products products from cells primarily monoclonals cytokines recombinant glycoproteins and increasingly vaccines dominate the biopharmaceutical industry Moreover a small number of products consisting of in vitro cultivated cells cells as product for regenerative medicine have also been introduced in the market Their efficient production requires comprehensive knowledge of biological as well as biochemical mammalian cell culture fundamentals e.g. cell characteristics and metabolism cell line establishment culture medium optimization and related engineering principles e.g. bioreactor design process scale up and optimization In addition new developments focusing on cell line development animal free culture media disposables and the implications of changing processes multi purpose facilities have to be taken into account While a number of excellent books treating the basic methods and applications of mammalian cell culture technology have been published only little attention has been afforded to their engineering aspects The aim of this book is to make a contribution to closing this gap it particularly focuses on the interactions between biological and biochemical and engineering principles in processes derived from cell cultures It is not intended to give a comprehensive overview of the literature This has been done extensively elsewhere Programmed Learning of Chemical Reaction Engineering H. Scott Fogler, 1971 **Chemical Reaction Engineering** Octave Levenspiel, 1962

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