



Bioreactor Design Fundamentals

Norton G. McDuffie

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Bioreactor Design Fundamentals presents the development in the bioreactor field. This book discusses the applications of biological kinetics and thermodynamics.

Organized into seven chapters, this book begins with an overview of the design of biological reactors that involves determining operating conditions, sizing the reactor, controlling temperature and sterility, and controlling operating variables. This text then examines the significance of pH considerations in biological reactor and process design. Other chapters consider enzyme kinetics and the equations most commonly used as models for overall enzyme kinetics. This book discusses as well the mass transfer rates in bioreactors, which are significant because of their effects on some chemical reaction rates in transformations by enzymes or by living cells. The final chapter deals with the ideal state of the continuous stirred-tank reactors (CSTRs).

This book is a valuable resource for biochemical engineers and industrial microbiologists.

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