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# Bioreaction Engineering, Bioprocess Monitoring (Volume 3)



## Synopsis

Volume 3 of Bioreaction Engineering covers the general principles and techniques of bioprocess monitoring and their application for various bioprocesses. Methods based on the author's long standing experience working with various bioprocesses are applied within the book. In particular, the cultivation of Baker's yeast; production of fusion protein with recombinant E. Coli, alkaline serine protease production with *Bacillus licheniformis*; production of penicillin V with *Penicillium chrysogenum*; Cephalosporin C with *Acremonium chrysogenum* and tetracycline with *Streptomyces aureofaciens* are considered. This book deals with the monitoring of batch and perfusion cultivations of animal cells and production of monoclonal antibodies with hybridoma cells, Antithrombin III with BHK and CHO cells and  $\beta$ -galactosidase with insect cells. The topics covered include: Bioprocess monitoring techniques Cultivation of *Saccharomyces cerevisiae* Production of Fusion Protein with Recombinant E. coli Alkaline Protease Production with *Bacillus licheniformis* Antibiotics Production by Fungi and Streptomyces Continuous Production of Primary Metabolites with Suspended and Immobilized Microorganisms Cultivation of Animal Cells and Production of Proteins Anaerobic Waste Water Treatment Fast Process Monitoring Techniques Image Analysis of Cells and Cell Aggregates Evaluation of Experimental Data to the Calculation of Metabolite Flux in Microorganisms and Animal Cells Signal Evaluation, Automation and Expert Systems for Process Monitoring Bioprocess Monitoring is invaluable for process engineers, analytical chemists and researchers in biotechnological, pharmaceutical, environmental and chemical industries.

## Book Information

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