



# PROCESS BIOTECHNOLOGY

## NEW EDITION

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### KEY SELLING POINTS

- ◆ Includes many illustrative tables, figures and mathematical reasoning
- ◆ Applies knowledge and data to commerce and industry

### BOOK INFORMATION

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A pressing need of the current millennium is to exploit biological processes for commercialization and industrialization. In order to do this the fundamentals of **Process Biotechnology** need to be understood fully. This book integrates academic and practical bioprocessing principles towards process biotechnology development. It contains research generated database incorporated text, never before published in a single collated text.

**Contents:** Introduction; Engineering biology of cells and the molecules they synthesise; Medium engineering for cell cultivation and bioreactions; New bioprocessing; Aspects and strategies; Bioreactors and biosensors; Bioprocess scale up; Concerns and criteria; Bioproducts; Modern estimation and bioassay; Bioproducts recovery; Conventional and newer methods; Treatment biotechnology of liquid wastes and water; Cellulose processing relevance to process biotechnology; Bioprocessing using cells under stresses; Bioprocessing plant design calculations; Penicillin production system; Bioprocessing practice tutorials.

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