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To help the chemical engineering students Chapter 1 includes a brief review of the most important parts of microbial metabolism. In our opinion this review is sufficient to understand microbial physiology at a sufficiently high level to profit from the rest of the book.

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by solution of large sets of linear algebraic equations. The question of ATP requirement for biomass production will be touched upon, and large network calculations mentioned. Lastly the analysis of kinetics for bioreactions will begin, starting with simple enzymatic reactions.

Bioreaction Engineering Principles

Biotechnology is a rapidly moving field, which builds on the competence and interplay of many different disciplines; biochemistry, microbiology, molecular biology and chemical engineering. The quantitative treatment of biological processes is today a prerequisite for both the design of new bioprocesses and the analysis of cellular function.The present text is an extensively revised edition of ...

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" Bioreaction Engineering Principles " was now sold out, and we were asked to prepare a third edition. With very little hesitation we accepted the offer. Since 2003 the book has been used as course-book, in European universities and also in North and South America, in the Far East, and in Australia. We wished not

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