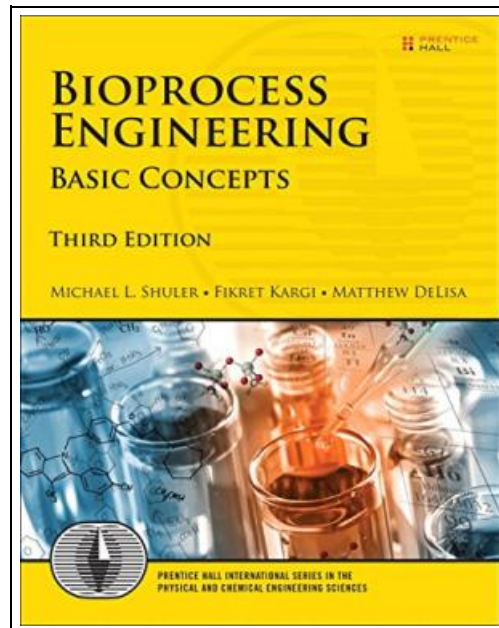


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Reviews

Very useful to any or all group of men and women. I am quite late in start reading this one, but better then never. You are going to like just how the blogger publish this book.

(Kristian Nader)

BIOPROCESS ENGINEERING: BASIC CONCEPTS (HARDBACK)



Pearson Education (US), United States, 2017. Hardback. Condition: New. 3rd edition. Language: English . Brand New Book. The Leading Introduction to Biochemical and Bioprocess Engineering, Updated with Key Advances in Productivity, Innovation, and Safety Bioprocess Engineering, Third Edition, is an extensive update of the world s leading introductory textbook on biochemical and bioprocess engineering and reflects key advances in productivity, innovation, and safety. The authors review relevant fundamentals of biochemistry, microbiology, and molecular biology, including enzymes, cell functions and growth, major metabolic pathways, alteration of cellular information, and other key topics. They then introduce evolving biological tools for manipulating cell biology more effectively and to reduce costs of bioprocesses. This edition presents major advances in the production of biologicals; highly productive techniques for making heterologous proteins; new commercial applications for both animal and plant cell cultures; key improvements in recombinant DNA microbe engineering; techniques for more consistent authentic post-translational processing of proteins; and other advanced topics. It includes new, improved, or expanded coverage of The role of small RNAs as regulatorsTranscription, translation, regulation, and differences between prokaryotes and eukaryotesCell-free processes, metabolic engineering, and protein engineeringBiofuels and energy, including coordinated enzyme systems, mixed-inhibition and enzyme-activation kinetics, and two-phase enzymatic reactionsSynthetic biologyThe growing role of genomics and epigenomics Population balances and the Gompertz equation for batch growth and product formationMicroreactors for scale-up/scale-down, including rapid scale-up of vaccine productionThe development of single-use technology in bioprocessesStem cell technology and utilizationUse of microfabrication, nanobiotechnology, and 3D printing techniquesAdvances in animal and plant cell biotechnology The text makes extensive use of illustrations, examples, and problems, and contains references for further reading as well as a detailed appendix describing traditional bioprocesses.



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