



Bioprocess Engineering: Basic Concepts (2nd Edition)

By Michael L. Shuler, Fikret Kargi

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Bioprocess Engineering, Second Edition thoroughly updates the leading introductory textbook on biochemical and bioprocess engineering to reflect advances that are transforming the field -- from genomics to cellular engineering, modeling to nonconventional biological systems. It introduces techniques with wide applicability in pharmaceuticals, biologics, medicine, environmental engineering, and beyond.

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Bibliography

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Editorial Review

From the Publisher

An introduction to the fundamentals of cellular structure and physiology, protein structure and function, genetics, and molecular biology -- for those with an understanding of the principles of process engineering, but with a limited background in biology.

From the Back Cover

The complete, fully updated introduction to biochemical and bioprocess engineering.

Bioprocess Engineering, Second Edition is a comprehensive update of the world's leading introductory textbook on biochemical and bioprocess engineering. Drs. Michael L. Shuler and Fikret Kargi review the relevant fundamentals of biochemistry, microbiology, and molecular biology, introducing key principles that enable bioprocess engineers to achieve consistent control over biological activity. This edition reflects powerful advances that are transforming the field, ranging from genetic sequencing to new techniques for producing proteins from recombinant DNA. It introduces techniques with broad application to the production of pharmaceuticals, biologics, and commodities; to medical applications such as tissue engineering and gene therapy; and for solving critical environmental problems. This new edition includes:

- Essential biological basics: microorganism structure and functions, major metabolic pathways, enzymes, microbial genetics, kinetics, and stoichiometry of growth
- New coverage of posttranslational processing of proteins-an essential technique for manufacturing therapeutic proteins
- In-depth coverage of animal cell culture processes
- New coverage of noncarbohydrate metabolism
- Functional genomics and cellular engineering: concepts, techniques, and applications
- Applying bioprocess engineering approaches to biomedical applications
- Nonconventional biological systems applications, including host-vector systems for producing proteins from recombinant DNA
- Extensive coverage of mixed cultures, including advanced wastewater treatment processes
- Expanded coverage of modeling, including models in continuous cultures and cybernetic modeling
- How the rapidly evolving governmental regulatory environment constrains bioprocess design and modification

Bioprocess Engineering, Second Edition makes extensive use of illustrations, examples, and problems, and contains extensive references for further reading as well as a detailed appendix describing traditional bioprocesses.

About the Author

DR. MICHAEL L. SHULER is Professor in the School of Chemical Engineering, Cornell University. His areas of research include structured models, heterologous protein expression systems, cell culture analogs for pharmacokinetic models, in-vitro toxicology, plant-cell tissue culture, microbial functional genomics, and bioremediation.

DR. FIKRET KARGI is Professor of Environmental Engineering at Dokuz Eylul University in Ismir, Turkey. His current research includes bioprocessing of wastes for production of commercial products, development of novel technologies for biological treatment of problematic wastewaters, nutrient removal, and novel biofilm reactor development.

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