



Modern Biotechnology: Connecting Innovations in Microbiology and Biochemistry to Engineering Fundamentals

Nathan S. Mosier, Michael R. Ladisch

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A unique resource for the next generation of biotech innovators

Enabling everything from the deciphering of the human genome to environmentally friendly biofuels to lifesaving new pharmaceuticals, biotechnology has blossomed as an area of discovery and opportunity. Modern Biotechnology provides a much-needed introduction connecting the latest innovations in this area to key engineering fundamentals. With an unmatched level of coverage, this unique resource prepares a wide range of readers for the practical application of biotechnology in biopharmaceuticals, biofuels, and other bioproducts.

Organized into fourteen sections, reflecting a typical semester course, Modern Biotechnology covers such key topics as:

- Metabolic engineering
- Enzymes and enzyme kinetics
- Biocatalysts and other new bioproducts
- Cell fusion
- Genetic engineering, DNA, RNA, and genes
- Genomes and genomics
- Production of biopharmaceuticals
- Fermentation modeling and process analysis

Taking a practical, applications-based approach, the text presents discussions of important fundamentals in biology, biochemistry, and engineering with relevant case studies showing technology applications and manufacturing scale-up. Written for today's wider, more interdisciplinary readership, Modern Biotechnology offers a solid intellectual foundation for students and professionals entering the modern biotechnology industry.

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