



Chapter 006, Unsteady-State Material and Energy Balances

Pauline Doran

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NOTE: This is a single chapter excerpted from the book *Bioprocess Engineering Principles*, made available for individual purchase. Additional chapters, as well as the entire book, may be purchased separately.

This welcome new edition discusses bioprocess engineering from the perspective of biology students. It includes a great deal of new material and has been extensively revised and expanded. These updates strengthen the book and maintain its position as the book of choice for senior undergraduates and graduates seeking to move from biochemistry/microbiology/molecular biology to bioprocess engineering.

New to this edition:

- All chapters thoroughly revised for current developments, with over 200 pgs of new material, including significant new content in:
 - Metabolic Engineering
 - Sustainable Bioprocessing
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