



Biomedical Mass Transport and Chemical Reaction: Physicochemical Principles and Mathematical Modeling

James S. Ultman, Harihara Baskaran, Gerald M. Saidel

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Teaches the fundamentals of mass transport with a unique approach emphasizing engineering principles in a biomedical environment

- Includes a basic review of physiology, chemical thermodynamics, chemical kinetics, mass transport, fluid mechanics and relevant mathematical methods
- Teaches engineering principles and mathematical modelling useful in the broad range of problems that students will encounter in their academic programs as well as later on in their careers
- Illustrates principles with examples taken from physiology and medicine or with design problems involving biomedical devices
- Stresses the simplification of problem formulations based on key geometric and functional features that permit practical analyses of biomedical applications
- Offers a web site of homework problems associated with each chapter and solutions available to instructors

Homework problems related to each chapter are available from a supplementary website (

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