

Basic Transport Phenomena in Biomedical Engineering

Third Edition

Ronald L. Fournier



CRC Press
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Transport Phenomena Biomedical Engineering Edition

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field of reaction engineering as it applies to physiologic systems in health and disease. It emphasizes the role played by these fundamental physical processes. The book first examines elementary concepts such as control volume selection and flow systems. It provides a comprehensive treatment with an overview of major research topics related to transport phenomena pertaining to biomedical engineering. Although each chapter is self-contained, they all bring forth and reinforce similar concepts through applications and discussions. With contributions from world-class experts, the book unmasks the fundamental phenomenological events in engineering devices and explores how to use them to meet the objectives of specific applications. It includes coverage of applications to drug delivery and cell and tissue-based therapies.

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