

Basic Transport Phenomena In Biomedical Engineering Fournier

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Designed for the beginning student, Basic Transport Phenomena in Biomedical Engineering, Third Edition provides a quantitative understanding of the underlying physical, chemical, and biological phenomena involved. It offers mathematical models using the "shell balance" or compartmental approaches, along with numerous examples and end-of-chapter problems based on these mathematical models and in many cases these models are compared with actual experimental data.

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Basic Transport Phenomena in Biomedical Engineering, Fourth Edition, brings together fundamental engineering and life science principles, with specific attention paid to the momentum and mass transport concepts applicable to the design of medical devices.

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Basic Transport Phenomena in Biomedical Engineering, R.L. Fournier, editor, Taylor & Francis, Philadelphia, PA, 1999, 312 pages. This is a textbook that maybe of peripheral interest to most of readers of this journal. Yet, this is a most welcome addition to the academics who work in the broader field of biomedical engineering.

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As in other texts on biomedical transport phenomena, momentum transport is addressed before mass transport. Chapter 4 covers the flow dynamics of blood flow with emphasis given to paradigmatic relationships such as the Hagen-Poiseuille equation, as well as the non-Newtonian characteristics of blood rheology and blood rheological models.

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The study of reaction kinetics, particularly when coupled with complex physical phenomena such as the transport of heat, mass and Transport Phenomena in Biomedical Engineering Principles and Practices

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Basic Transport Phenomena in Biomedical Engineering, Fourth Edition Best Sellers Rank : #3. Bringing together fundamental engineering and life science principles, this book provides a focused coverage of key concepts in biomedical engineering transport phenomena.

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