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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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A Cutting-Edge Guide to Applying Transport Phenomena Principles to Bioengineering Systems. Transport Phenomena in Biomedical Engineering: Artificial Order Design and Development and Tissue Engineering explains how to apply the equations of continuity, momentum, energy, and mass to human anatomical systems. This authoritative resource presents solutions along with term-by-term medical significance.

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This will be a substantial revision of a good selling text for upper division/first graduate courses in biomedical transport phenomena, offered in many departments of biomedical and chemical engineering. Each chapter will be updated accordingly, with new problems and examples incorporated where appropriate.

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The breadth of coverage in these chapters is extensive, with many important paradigms covered, including convective mass transport, capillary filtration, membrane transport, transcapillary solute exchange, oxygen carriage in blood, oxygen transport within tissue (Krogh model), and characteristics of artificial blood.

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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

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Transport phenomena have wide application. For example, in solid state physics, the motion and interaction of electrons, holes and phonons are studied under "transport phenomena". Another example is in biomedical engineering, where some transport phenomena of interest are thermoregulation, perfusion, and microfluidics.

Transport phenomena - Wikipedia

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Transport Phenomena has been revised to include deeper and more extensive coverage of heat transfer, enlarged discussion of dimensional analysis, a new chapter on flow of polymers, systematic discussions of convective momentum, and energy. Topics also include mass transport,

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