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and an in-depth exploration of body fluids, osmosis and membrane filtration, the physical and flow properties of blood, solute transport, oxygen transport, and pharmacokinetic analysis.

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introduced, but the pace may seem too rapid for a beginning engineering student. However, the student or practitioner who has already been exposed to some of the engineering principles covered in this text will appreciate the efficiency and breadth with which biomedical applications of classic transport principles are presented.

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science principles to
uncover key concepts
in biomedical
engineering transport
phenomena. Coverage
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properties, body fluids, solute diffusion and transport, physical and flow properties of fluids and blood, tissue oxygen transport, and pharmacokinetics.

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in Biomedical Engineering, Third Edition: The book also includes a discussion of thermodynamic concepts and covers topics such as body fluids, osmosis and membrane filtration, physical and flow properties of blood, solute and oxygen transport, and pharmacokinetic analysis.

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uncover key concepts in biomedical engineering transport phenomena. Coverage begins with basic thermodynamic properties, body fluids, solute diffusion and transport, physical and flow properties of fluids and blood, tissue oxygen transport, and pharmacokinetics.

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Summary. 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. Such an analysis highlights the chemical and physical transport processes

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the concepts of

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alongside chemical

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the role played by these fundamental physical processes.

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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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