



Transport Phenomena in Biomedical Engineering: Artificial organ Design and Development, and Tissue Engineering (Mechanical Engineering)

By Kal Sharma

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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. Worked exercises illustrate the equations derived, and detailed case studies highlight real-world examples of artificial organ design and human tissue engineering.

Coverage includes:

- Fundamentals of fluid mechanics and principles of molecular diffusion
- Osmotic pressure, solvent permeability, and solute transport
- Rheology of blood and transport
- Gas transport
- Pharmacokinetics
- Tissue design
- Bioartificial organ design and immunoisolation
- Bioheat transport
- 541 end-of-chapter exercises and review questions
- 106 illustrations
- 1,469 equations derived from first principles



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Editorial Review

About the Author

Kal Renganathan Sharma, PE, teaches at Prairie View A & M University in Prairie View, Texas. He holds joint appointments as adjunct professor in three departments: Chemical Engineering; Civil and Environmental Engineering; and Mechanical Engineering. He has instructed more than 2000 students via 64 courses in the U.S. and India over the past 14 years.

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