

Transport Phenomena Solutions

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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.

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We will refer to this transport mechanism as carrier drift. In addition, carriers also move from regions where the carrier density is high to regions where the carrier density is low. This carrier transport mechanism is due to the thermal energy and the associated random motion of the carriers.

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The efficient transport of molecules is essential for the normal function of cells and organs and the design of devices for medical applications and biotechnology. Transport Phenomena in Biological Systems provides an introduction to the integrated study of transport processes and their biological applications.

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contents: transport phenomena . chapter 01: fluid statics and viscosity. chapter 02: mass, energy and momentum balance. chapter 03:

application of equation of motion and continuity. chapter 04: laminar and turbulent flow in pipes. chapter 05: fluid flow measuring instruments, fluid moving

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