

# Mass-transfer operations

McGraw-Hill - Urbanbae : Mass Transfer Operations 3rd Edition



Description: -

- Insects.
  - Insects -- Juvenile literature.
  - Mass transfer.
  - Chemical engineering. Mass-transfer operations
  - McGraw-Hill series in chemical engineering. Mass-transfer operations
- Notes: Includes bibliographical references.  
This edition was published in 1955



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## Urbanbae : Mass Transfer Operations 3rd Edition

Concentration profiles The concentration profile owing purely to diffusion through a medium with constant material properties and no reaction is linear.

### important Questions and Answers: Mass Transfer

Solid-Fluid operations Very lucid and detailed. Mass transfer by convection involves the transport of material between a boundary surface such as solid or liquid surface and a moving fluid or between two relatively immiscible, moving fluids.

### important Questions and Answers: Mass Transfer

Example: The story of engineering the contact lens The cornea of the eye needs oxygen from the air Mindful of mass transfer, here is the evolution of this important product. The fluid in the tank is pumped into another tank. The mole fraction is defined as the ratio of mole concentration of a species to the total molar concentration.

### important Questions and Answers: Mass Transfer

We need to consider convective and diffusive mass transfer in multiple media. Convective mass transfer is really diffusion the random movement of molecules in combination with advection molecules being carried along with the motion of the fluid.

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The diffusion coefficient or diffusivity is a proportionality constant between the molar flux due to molecular diffusion and the gradient in the concentration of the species or the driving force for diffusion. So, to compute the rate of mass molar transfer, we can use the following: Exercise: Mass transfer resistances You have been assigned to improve the efficiency of a mass transfer device. .

## Mass Transfer — Introduction to Chemical and Biological Engineering

GIVE THE EXAMPLES OF MASS TRANSFER.

**important Questions and Answers: Mass Transfer**

What is happening in the boundary layer? In the interest of being pithy, the logic behind the phase diagrams and equations is severely lacking in several chapters. What is happening outside of the boundary layer? The mass fraction is defined as the ratio of mass concentration species to the total mass density of the mixture.

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