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This book, first published in 2000, gives a solid grounding in the principles of matter transport and their application to a range of engineering problems. The author develops a unified treatment of mass transport applicable to both solids and liquids.

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This chapter aims first to outline the basic features of the theory of transport in solids and the relationship between macroscopic transport coefficients and atomistic migration mechanisms. Secondly we shall provide the necessary background in defect physics, giving emphasis, however, to areas where there

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have been notable
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The field of matter
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transport is central to understanding the processing of materials and their subsequent mechanical properties. While thermodynamics determines the final state of a material system, it is the kinetics of mass transport that governs how it gets there. This book, first published in 2000, gives a solid grounding in the principles of matter transport and their

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application to a ...

**Mass Transport in
Solids and Fluids -
David S. Wilkinson**

...

Mass transport
deposits (MTDs), or, as
they are often termed,
mass transport
complexes (MTC), are
large scale sediment
failures that often
leave slump scars on
the slope, where the
MTD originates, and
folded, contorted, often

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muddy deposits
downslope, where the
sediment body comes
to rest (Fig. 11.61).
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History. In 1855,
physiologist Adolf Fick
first reported his now
well-known laws
governing the
transport of mass
through diffusive

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means. Fick's work was inspired by the earlier experiments of Thomas Graham, which fell short of proposing the fundamental laws for which Fick would become famous. Fick's law is analogous to the relationships discovered at the same epoch by other eminent scientists ...

Fick's laws of diffusion - Wikipedia

The wide scatter in

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experimental results has not allowed drawing solid conclusions on self-diffusion in the chalcopyrite CuInSe_2 (CIS). In this work, the defect-assisted mass transport mechanisms operating in CIS are clarified using first-principles calculations. We present how the stoichiometry of the material and temperature affect the dominant diffusion

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mechanisms.

**Mass transport in
CuInSe₂ from first
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is the first textbook
about transport
phenomena. It is
specifically designed
for chemical
engineering students.
The first edition was
published in 1960, two
years after having
been preliminarily
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chemistry, and one which, moreover, has important implications in several areas of materials science. This growth is due first to an increase in the understanding of the fundamentals of transport processes in solids.

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growing importance in solid state physics and chemistry, and one which, moreover, has important implications in several areas of materials science. This growth is due first to an increase in the understanding of the fundamentals of transport processes in solids.

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published in 2000, gives a solid grounding in the principles of matter transport and their application to a range of engineering problems. The author develops a unified treatment of mass transport applicable to both solids and liquids.

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David S. Wilkinson;
Cambridge University
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Prof. Gandham
Phanikumar doctoral
work is on heat
transfer, fluid flow and
solute transfer during
laser processing of
dissimilar metals.

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1-1. Chapter 1.
Fundamentals of Mass
Transfer. When a single
phase system contains
two or more species
whose concentrations
are not uniform, mass
is transferred to
minimize the
concentration
differences within the
system. In a multi-
phase system mass is

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transferred due to the chemical potential differences between the species. In a single phase system where temperature and pressure are uniform, the difference in chemical potential is due to the variation in concentration of each ...

Chapter 1
Fundamentals of
Mass Transfer

Mass transfer in solids:
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Random walk and
Fick's 1st law Diffusion
coefficient (D),
mechanisms of
diffusion including fast
paths Fick's 2nd law,
1D steady state
diffusion and 1D
transient thin film
source

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A mass flow discharge
pattern provides a first-

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in, first-out flow sequence that maximizes the control of the residence time in the bin, uses the full bin capacity, and eliminates ratholing and the associated problems of the flooding of fine powders. Mass flow bins provide other benefits over funnel flow hoppers.

**Bulk solids handling
system design |**

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Processing Magazine

The author develops a unified treatment of mass transport applicable to both solids and liquids. Traditionally, matter transport in fluids is considered as an extension of heat transfer and can appear to have little relationship to diffusion in solids. This unified approach clearly makes the connection between these

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important fields.

**Mass transport in
solids and fluids
(eBook, 2000 ...**

where M_i is the relative molar mass (kg mol^{-1}) of species i . The diffusive mass flux of each species is, in turn, expressed based on the gradients of the mole or mass fractions, using multi-component diffusion coefficients D_{ik} . These are symmetric, so that an

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n-component system
requires $n(n-1)/2$
independent
coefficients to
parameterize the rate
of diffusion of its
components.

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