

Access Free Transport
Phenomena In Materials
Processing Poirier

Transport Phenomena In Materials Processing Poirier

This book presents the basic theory

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and experimental techniques of transport phenomena in materials processing operations. Such fundamental knowledge is highly useful for researchers and engineers in the field to improve the efficiency of conventional processes or develop novel technology. Divided into four

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parts, the book comprises 11 chapters describing the principles of momentum transfer, heat transfer, and mass transfer in single phase and multiphase systems. Each chapter includes examples with solutions and exercises to facilitate students' learning. Diagnostic

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problems are also provided at the end of each part to assess students' comprehension of the material. The book is aimed primarily at students in materials science and engineering. However, it can also serve as a useful reference text in chemical engineering as well as an

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introductory transport phenomena text in mechanical engineering. In addition, researchers and engineers engaged in materials processing operations will find the material useful for the design of experiments and mathematical models in transport phenomena. This volume

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contains unique features not usually found in traditional transport phenomena texts. It integrates experimental techniques and theory, both of which are required to adequately solve the inherently complex problems in materials processing operations. It takes a

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holistic approach by considering both single and multiphase systems, augmented with specific practical examples. There is a discussion of flow and heat transfer in microscale systems, which is relevant to the design of modern processes such as fuel cells and compact heat

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exchangers. Also described are auxiliary relationships including turbulence modeling, interfacial phenomena, rheology, and particulate systems, which are critical to many materials processing operations.

Transport Phenomena in Dispersed

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Media addresses the main problems associated with the transfer of heat, mass and momentum. The authors focus on the analytical solutions of the mass and heat transfer equations; the theoretical problems of coalescence, coagulation, aggregation and fragmentation of

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dispersed particles; the rheology of structured aggregate and kinetically stable disperse systems; the precipitation of particles in a turbulent flow; the evolution of the distribution function; the stochastic counterpart of the mass transfer equations; the dissipation of energy

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in disperse systems; and many other problems that distinguish this book from existing publications. Key Selling Features Covers all technological processes taking place in the oil and gas complex, as well as in the petrochemical industry Presents new original solutions for

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calculating design as well as for the development and implementation of processes of chemical technology Organized to first provide an extensive review of each chapter topic, solve specific problems, and then review the solutions with the reader Contains complex

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*mathematical expressions for
practical calculations Compares
results obtained on the basis of
mathematical models with
experimental data*

*The understanding and control of
transport phenomena in materials
processing play an important role in*

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the improvement of conventional processes and in the development of new techniques. Computer modeling of these phenomena can be used effectively for this purpose. Although there are several books in the literature covering the analysis of heat tra

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*Transport Phenomena in
Manufacturing and Materials
Processing*

*Transport Phenomena in Materials
Processing, 1990*

*Transport Phenomena in Food
Processing*

Presented at the 6th AIAA/ASME

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*Thermophysics and Heat Transfer
Conference, Colorado Springs,
Colorado, June 20-23, 1994*

*An extremely useful guide to the
theory and applications of transport
phenomena in materials processing
This book defines the unique role that
transport phenomena play in materials*

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processing and offers a graphic, comprehensive treatment unlike any other book on the subject. The two parts of the text are, in fact, two useful books. Part I is a very readable introduction to fluid flow, heat transfer, and mass transfer for materials engineers and anyone not yet

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thoroughly familiar with the subject. It includes governing equations and boundary conditions particularly useful for studying materials processing. For mechanical and chemical engineers, and anyone already familiar with transport phenomena, Part II covers the many specific applications to

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materials processing, including a brief description of various materials processing technologies. Readable and unencumbered by mathematical manipulations (most of which are allocated to the appendixes), this book is also a useful text for upper-level undergraduate and graduate-level

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courses in materials, mechanical, and chemical engineering. It includes hundreds of photographs of materials processing in action, single and composite figures of computer simulation, handy charts for problem solving, and more. Transport Phenomena and Materials Processing:

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Describes eight key materials processing technologies, including crystal growth, casting, welding, powder and fiber processing, bulk and surface heat treating, and semiconductor device fabrication
Covers the latest advances in the field, including recent results of computer

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*simulation and flow visualization
Presents special boundary conditions
for transport phenomena in materials
processing Includes charts that
summarize commonly encountered
boundary conditions and step-by-step
procedures for problem solving Offers
a unique derivation of governing*

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*equations that leads to both overall
and differential balance equations
Provides a list of publicly available
computer programs and publications
relevant to transport phenomena in
materials processing
Motivated by international competition
and an easy access to high-speed*

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computers the manufacturing and materials processing industry has seen many changes in recent times. New techniques are constantly being developed based on a broad range of basic sciences including physics, chemistry and particularly thermal-fluids sciences and kinetics. In order to

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produce and treat massive products, the industry is also in need of a very wide range of engineering knowledge and skill for integrating metallurgy, mechanics, electricity, transport phenomena, instrumentation and computer control. This monograph covers a part of these demands,

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namely by presenting the available knowledge on transport phenomena in manufacturing and materials processing. It is divided into four parts. Part I deals with the fundamentals of transport phenomena, including the transfer of momentum, energy, mass, electric and magnetic properties. Parts

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II and III are concerned with applications of the fundamentals in transport phenomena occurring in manufacturing and materials processing, respectively. Emphasis has been placed on common aspects of both disciplines, such as forming, machining, welding, casting, injection

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molding, surface processes, heating and cooling, solidification, crystal growth and diffusion. Part IV deals with beam technology and microgravity, two topics of current importance.

Rotary Kilns—rotating industrial drying ovens—are used for a wide variety of

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applications including processing raw minerals and feedstocks as well as heat-treating hazardous wastes. They are particularly critical in the manufacture of Portland cement. Their design and operation is critical to their efficient usage, which if done incorrectly can result in improperly

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treated materials and excessive, high fuel costs. This professional reference book will be the first comprehensive book in many years that treats all engineering aspects of rotary kilns, including a thorough grounding in the thermal and fluid principles involved in their operation, as well as how to

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properly design an engineering process that uses rotary kilns. Chapter 1: The Rotary Kiln Evolution & Phenomenon Chapter 2: Basic Description of Rotary Kiln Operation Chapter 3: Freeboard Aerodynamic Phenomena Chapter 4: Granular Flows in Rotary Kilns Chapter 5:

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*Mixing & Segregation Chapter 6:
Combustion and Flame Chapter 7:
Freeboard Heat Transfer Chapter 8:
Heat Transfer Processes in the Rotary
Kiln Bed Chapter 9: Mass & Energy
Balance Chapter 10: Rotary Kiln
Minerals Process Applications -Covers
fluid flow, granular flow, mixing and*

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segregation, and aerodynamics during turbulent mixing and recirculation

·Offers hard-to-find guidance on fuels used for rotary kilns, including fuel options such as natural gas versus coal-fired rotary kilns ·Explains principles of combustion and flame control, heat transfer and heating and

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material balances

*Transport Phenomena and Transport
Processes*

*Presented at the 28th National Heat
Transfer Conference and Exhibition,
San Diego, CA, August 9-12, 1992*

*Transport Phenomena and Materials
Processing*

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*Transport Phenomena in Materials
Processing, Solutions Manual
Transport Phenomena in
Materials Processing Springer
Transport phenomena are
the processes and rules by
which heat, mass, and*

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*momentum move through
and between materials and
systems. Along with
thermodynamics, mechanics,
and electromagnetism, this
body of knowledge and
theory forms the core*

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principals of all physical systems and is essential to all engineering disciplines. This new edition of a classic work on how transport phenomena behave in materials and materials

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*systems will provide
expanded coverage and up-
to-date theory and
knowledge from today's
research on heat transfer
and fluid behavior, with
ample examples of practical*

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*applications to materials
processing and engineering.
Professional engineers and
students alike will find one of
the clearest and most
accessible approaches to an
often difficult and*

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challenging subject. Logical pedagogy, with clear applications to real materials engineering problems will make more vivid the abstract body of knowledge that comprises today's

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*understanding of transport
phenomena. Readers will
find: A new chapter on
boiling and condensation
Revised chapters on heat
transport, mass transport in
solid state and mass*

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*transport in fluids Revised
and expanded end-of-
chapter problems and
exercises S.I. Units
throughout Extensive
Appendices of standard
materials properties For*

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*classroom use, a Solutions
Manual is available*

*This text provides a
teachable and readable
approach to transport
phenomena by providing
numerous examples and*

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applications. The text leads the reader through the development and solution of relevant differential equations by applying familiar principles of conservation to numerous

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situations and by including many worked examples in each chapter. The book is organized similarly to other texts in transport phenomena. Section I deals with the properties and

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*mechanics of fluid motion;
Section II with thermal
properties and heat transfer;
and Section III with diffusion
and mass transfer. The
authors depart from tradition
by building on a presumed*

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understanding of the relationships between the structure and properties of matter, particularly in the chapters devoted to the transport properties.

Generous portions of the

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*text, numerous examples,
and many problems apply
transport phenomena to
materials processing.*

*Transport Phenomena in
Materials Processing and
Manufacturing, 1996*

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*Advanced Heat and Mass
Transfer*

*Presented at the Winter
Annual Meeting of the
American Society of
Mechanical Engineers,
Boston, Massachusetts,*

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November 13-18, 1983

Materials Kinetics

*Transport Phenomena of Foods and
Biological Materials provides
comprehensive coverage of
transport phenomena modeling in
foods and other biological*

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materials. The book is unique in its consideration of models ranging from rigorous mathematical to empirical approaches, including phenomenological and semi-empirical models. It examines cell structure and descriptions of other

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non-traditional models, such as those based on irreversible thermodynamics or those focused on the use of the chemical and electrochemical potential as the driving forces of transport. Other topics discussed include the source

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*term (important for the coupling
transport phenomena-reaction or
other intentional/unintentional
phenomena) and the connections
between transport phenomena
modeling and design aspects. Some
100 tables provide useful summaries*

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of the characteristics of each model and provide data about the transport properties of an extensive variety of foods. Transport Phenomena of Foods and Biological Materials will benefit a broad audience of chemists, biochemists,

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*biotechnologists, and other
scientists in the academic and
industrial realm of foods and
biological materials.*

*This classic text on fluid flow, heat
transfer, and mass transport has
been brought up to date in this*

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second edition. The author has added a chapter on “Boiling and Condensation” that expands and rounds out the book’s comprehensive coverage on transport phenomena. These new topics are particularly important to

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current research in renewable energy resources involving technologies such as windmills and solar panels. The book provides you and other materials science and engineering students and professionals with a clear yet

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thorough introduction to these important concepts. It balances the explanation of the fundamentals governing fluid flow and the transport of heat and mass with common applications of these fundamentals to specific systems

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existing in materials engineering.

You will benefit from:

- *The use of familiar examples such as air and water to introduce the influences of properties and geometry on fluid flow.*
- *An organization with sections dealing separately with*

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fluid flow, heat transfer, and mass transport. This sequential structure allows the development of heat transport concepts to employ analogies of heat flow with fluid flow and the development of mass transport concepts to employ

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*analogies with heat transport. •
Ample high-quality graphs and
figures throughout. • Key points
presented in chapter summaries. •
End of chapter exercises and
solutions to selected problems. • An
all new and improved*

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comprehensive index.

This introduction to transport phenomena in materials engineering balances an explanation of the fundamentals governing fluid flow and the transport of heat and mass with their common applications to

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specific systems in materials engineering. It introduces the influences of properties and geometry on fluid flow using familiar fluids such as air and water. Covers topics such as engineering units and pressure in

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static fluids; momentum transport and laminar flow of Newtonian fluids; equations of continuity and conservation of momentum and fluid flow past submerged objects; turbulent flow; mechanical energy balance and its application to fluid

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*flow; transport of heat by
conduction; transport of heat by
convection; transient heat flow; heat
transport by thermal radiation;
mass transport in the solid state by
diffusion; mass transport in fluids.
Includes extensive appendices.*

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*Transport Phenomena in Materials
Processing*

*Transport Phenomena in Materials
Processing and Manufacturing,
1994*

Solutions Manual

Transport Phenomena in Dispersed

Access Free Transport Phenomena In Materials Processing Poirier *Media*

This text provides a teachable and readable approach to transport phenomena (momentum, heat, and mass transport) by providing numerous examples and applications, which

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are particularly important to metallurgical, ceramic, and materials engineers. Because the authors feel that it is important for students and practicing engineers to visualize the physical situations, they have attempted to

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lead the reader through the development and solution of the relevant differential equations by applying the familiar principles... This book provides a thorough overview of transport phenomena in complex fluids, based on the

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latest research results and the newest methods for their analytical prediction and numerical simulation. The respective chapters cover several topics, including: a description of the structural features of the most

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common complex fluids (polymer and surfactant solutions, colloidal suspensions); an introduction to the most common non-Newtonian constitutive models and their relationship with the fluid microstructure; a detailed

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overview of the experimental methods used to characterise the thermophysical properties, bulk rheology, and surface properties of complex fluids; a comprehensive introduction to heat, mass, and momentum

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transport, and to hydrodynamic instabilities in complex fluids; and an introduction to state-of-the-art numerical methods used to simulate complex fluid flows, with a focus on the Smoothed Particle Hydrodynamics (SPH) and the

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Dissipative Particle Dynamics (DPD) techniques. Subsequent chapters provide in-depth descriptions of phenomena such as thermal convection, elastic turbulence, mixing of complex fluids, thermophoresis,

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sedimentation, and non-Newtonian drops and sprays. The book addresses research scientists and professionals, engineers, R&D managers and graduate students in the fields of engineering, chemistry, biology,

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medicine, and the applied and
fundamental sciences.

This text provides a teachable
and readable approach to
transport phenomena
(momentum, heat, and mass
transport) by providing numerous

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examples and applications, which are particularly important to metallurgical, ceramic, and materials engineers. Because the authors feel that it is important for students and practicing engineers to visualize the physical

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situations, they have attempted to lead the reader through the development and solution of the relevant differential equations by applying the familiar principles of conservation to numerous situations and by including many

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worked examples in each chapter. The book is organized in a manner characteristic of other texts in transport phenomena. Section I deals with the properties and mechanics of fluid motion; Section II with thermal properties

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and heat transfer; and Section III with diffusion and mass transfer. The authors depart from tradition by building on a presumed understanding of the relationships between the structure and properties of matter, particularly in

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the chapters devoted to the transport properties (viscosity, thermal conductivity, and the diffusion coefficients). In addition, generous portions of the text, numerous examples, and many problems at the ends of the

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chapters apply transport
phenomena to materials
processing.

Aspects of Micro/Macro
Behaviour

Transport Phenomena in
Materials Processing and

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Manufacturing

Symposium : Winter Annual
Meeting : Papers

Solutions Manual to Accompany
Transport Phenomena in
Materials Processing

Materials Kinetics: Transport and

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Rate Phenomena provides readers with a clear understanding of how physical-chemical principles are applied to fundamental kinetic processes. The book integrates advanced concepts with foundational knowledge and

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cutting-edge computational approaches, demonstrating how diffusion, morphological evolution, viscosity, relaxation and other kinetic phenomena can be applied to practical materials design problems across all classes of

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materials. The book starts with an overview of thermodynamics, discussing equilibrium, entropy, and irreversible processes. Subsequent chapters focus on analytical and numerical solutions of the diffusion equation, covering

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*Fick's laws, multicomponent diffusion, numerical solutions, atomic models, and diffusion in crystals, polymers, glasses, and polycrystalline materials.
Dislocation and interfacial motion, kinetics of phase separation,*

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viscosity, and advanced nucleation theories are examined next, followed by detailed analyses of glass transition and relaxation behavior. The book concludes with a series of chapters covering molecular dynamics, energy

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*landscapes, broken ergodicity,
chemical reaction kinetics, thermal
and electrical conductivities,
Monte Carlo simulation
techniques, and master equations.
Covers the full breadth of
materials kinetics, including*

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*organic and inorganic materials,
solids and liquids, theory and
experiments, macroscopic and
microscopic interpretations, and
analytical and computational
approaches Demonstrates how
diffusion, viscosity microstructural*

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evolution, relaxation, and other kinetic phenomena can be leveraged in the practical design of new materials Provides a seamless connection between thermodynamics and kinetics Includes practical exercises that

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*reinforce key concepts at the end
of each chapter*

*In this book, the fundamentals of
chemical engineering are
presented with respect to
applications in micro system
technology, microfluidics, and*

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transport processes within microstructures. Special features of the book include the state-of-the-art in micro process engineering, a detailed treatment of transport phenomena for engineers, and a design

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methodology from transport effects to economic considerations.

Materials processing and manufacturing are fields of growing importance whereby transport phenomena play a

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central role in many of the applications. This volume is one of the first collections of contributions on the subject. The five papers cover a wide variety of applications

Computer Modelling of Heat and

**Access Free Transport
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*Fluid Flow in Materials Processing
Presented at the 28th National
Heat Transfer Conference and
Exhibition, San Diego, California,
August 9-12, 1992*

*Presented at the 1996
International Mechanical*

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*Engineering Congress and
Exposition, November 17-22,
1996, Atlanta, Georgia*

*Transport phenomena in materials
processing. Papers ; 1990*

This textbook offers an introduction to
multiple, interdependent transport

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phenomena as they occur in various fields of physics and technology like transport of momentum, heat, and matter. These phenomena are found in a number of combined processes in the fields of chemical, food, biomedical, and environmental sciences. The book

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puts a special emphasis on numerical modeling of both purely diffusive mechanisms and macroscopic transport such as fluid dynamics, heat and mass convection. To favor the applicability of the various concepts, they are presented with a simplicity of

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exposure, and synthesis has been preferred with respect to completeness. The book includes more than 130 graphs and figures, to facilitate the understanding of the various topics. It also presents many modeling examples throughout the text, to control that the

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learned material is properly understood. There are some typos in the text. You can see the corrections here: http://www.springer.com/cda/content/document/cda_downloaddocument/ErrataCorrige_v0.pdf?SGWID=0-0-45-1679320-p181107156

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Proceedings of the November 1996 symposium which included sessions on thermal transport in laser-materials interactions, laser-materials processing, transport phenomena in crystal growth, solidification, and melting, transport phenomena in

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manufacturing and materials processing, and multiphase flow. This monograph presents an integrated perspective of the wide range of phenomena and processes applicable to the study of transport of species in porous materials. In order to formulate

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the entire range of porous media and their uses, this book gives the basics of continuum mechanics, thermodynamics, seepage and consolidation and diffusion, including multiscale homogenization methods. The particular structure of the book

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has been chosen because it is essential to be aware of the true properties of porous materials particularly in terms of nano, micro and macro mechanisms. This book is of pedagogical and practical importance to the fields covered by civil, environmental,

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nuclear and petroleum engineering and also in chemical physics and geophysics as it relates to radioactive waste disposal, geotechnical engineering, mining and petroleum engineering and chemical engineering. An Introduction to Transport

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Phenomena in Materials Engineering
Transport Phenomena in Micro
Process Engineering
12th Symposium on Transport
Phenomena in Materials Processing
and Manufacturing Processes
Specifically developed for food

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engineers, this is an in-depth reference book that focuses on transport phenomena in food preservation. First it reviews the fundamental concepts regarding momentum, heat, and mass transfer. Then the book

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examines specific applications of these concepts into a variety of traditional and novel processes and products.

***A Multiphysics, General Equation-Based Approach
Transport Phenomena in***

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Processing Poirier

Complex Fluids

***Basic Transport Phenomena in
Materials Engineering***

***An Introduction to Transport
Phenomena In Materials
Engineering, 2nd edition***