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E. N. Lightfoot, John Wiley and Sons, Inc., New York (1960). 780 pages. \$11.50

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AND TENSORS IN CARTESIAN COORDINATES (s is a
scalar; v and w are vectors; T is a tensor; dot or cross
operations enclosed within parentheses are scalars,
those enclosed in brackets are vectors) Note: The
above operations may be generalized to cylindrical
coordinates by replacing (x, y, z) by $(r \dots$

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In the 1950s, R. Byron Bird, Warren E. Stewart and

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Edwin N. Lightfoot stepped forward to develop an undergraduate course at the University of Wisconsin–Madison to integrate the teaching of fluid flow, heat transfer, and diffusion. From this beginning, they prepared their landmark textbook Transport Phenomena. Subjects covered in the book

~~Transport Phenomena (book) — Wikipedia~~

Transport Phenomena, 2ed Paperback – 1 January 2006 by R. Byron Bird (Author), Warren E. Stewart (Author), Edwin N. Lightfoot (Author) 4.3 out of 5 stars 68 ratings See all formats and editions

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Transmission; Summary note In their classic text,
Transport Phenomena, Bird, Stewart. and Lightfoot
state their opinion that the subject of transport
phenomena should rank along with thermodynamics,
mechanics, and electromagnetism as one of the "key
engineering sciences."

~~An introduction to transport phenomena in materials~~

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†See R. B. Bird, W. E. Stewart, and E. N. Lightfoot, Transport Phenomena (New York: Wiley, 1960), p. 511. ‡ E. N. Fuller, P. D. Schettler, and J. C. Giddings, Ind ...

~~Chapter 11—Example~~

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2015-02-13 Introductory Transport Phenomena by R.

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Byron Bird, Warren E. Stewart, Edwin N. Lightfoot, and Daniel Klingenberg is a new introductory textbook based on the classic Bird, Stewart,...

This book presents balanced treatment of transport phenomena and equal emphasis on mass transport, momentum transport and energy transport. It include extensive reference to applications of material covered and the addition of appendices on applied mathematics topics, the Boltzmann equation, and a summary of the basic equations in several coordinate systems. 'Transport phenomena' offers literature

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citations throughout so you and your students know where to find additional material. It contains -
Transport properties in two-phase systems; Boundary-layer theory; Heat and mass transfer coefficients; Dimensional analysis and scaling.

Introductory Transport Phenomena by R. Byron Bird, Warren E. Stewart, Edwin N. Lightfoot, and Daniel Klingenberg is a new introductory textbook based on the classic Bird, Stewart, Lightfoot text, Transport Phenomena. The authors' goal in writing this book reflects topics covered in an undergraduate course. Some of the rigorous topics suitable for the advanced students have been retained. The text covers topics

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such as: the transport of momentum; the transport of energy and the transport of chemical species. The organization of the material is similar to Bird/Stewart/Lightfoot, but presentation has been thoughtfully revised specifically for undergraduate students encountering these concepts for the first time. Devoting more space to mathematical derivations and providing fuller explanations of mathematical developments—including a section of the appendix devoted to mathematical topics—allows students to comprehend transport phenomena concepts at an undergraduate level.

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Industrial Engineers Special Features: · Careful attention is paid to the presentation of the basic theory· Enhanced sections throughout text provide much firmer foundation than the first edition· Literature citations are given throughout for reference to additional material About The Book: The long-awaited revision of a classic! This new edition presents a balanced introduction to transport phenomena, which is the foundation of its long-standing success. Topics include mass transport, momentum transport and energy transport, which are presented at three different scales: molecular, microscopic and macroscopic.

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Laurence Belfiore's unique treatment meshes two mainstream subject areas in chemical engineering: transport phenomena and chemical reactor design. Expressly intended as an extension of Bird, Stewart, and Lightfoot's classic Transport Phenomena, and Froment and Bischoff's Chemical Reactor Analysis and Design, Second Edition, Belfiore's unprecedented text explores the synthesis of these two disciplines in a manner the upper undergraduate or graduate reader can readily grasp. Transport Phenomena for Chemical Reactor Design approaches the design of chemical reactors from microscopic heat and mass transfer principles. It includes simultaneous consideration of kinetics and heat transfer, both critical to

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the performance of real chemical reactors.

Complementary topics in transport phenomena and thermodynamics that provide support for chemical reactor analysis are covered, including: Fluid dynamics in the creeping and potential flow regimes around solid spheres and gas bubbles The corresponding mass transfer problems that employ velocity profiles, derived in the book's fluid dynamics chapter, to calculate interphase heat and mass transfer coefficients Heat capacities of ideal gases via statistical thermodynamics to calculate Prandtl numbers Thermodynamic stability criteria for homogeneous mixtures that reveal that binary molecular diffusion coefficients must be positive In

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in addition to its comprehensive treatment, the text also contains 484 problems and ninety-six detailed solutions to assist in the exploration of the subject. Graduate and advanced undergraduate chemical engineering students, professors, and researchers will appreciate the vision, innovation, and practical application of Laurence Belfiore's Transport Phenomena for Chemical Reactor Design.

This book is unique as the first effort to expound on

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the subject of systematic scaling analysis. Not written for a specific discipline, the book targets any reader interested in transport phenomena and reaction processes. The book is logically divided into chapters on the use of systematic scaling analysis in fluid dynamics, heat transfer, mass transfer, and reaction processes. An integrating chapter is included that considers more complex problems involving combined transport phenomena. Each chapter includes several problems that are explained in considerable detail. These are followed by several worked examples for which the general outline for the scaling is given. Each chapter also includes many practice problems. This book is based on recognizing the value of systematic

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scaling analysis as a pedagogical method for teaching transport and reaction processes and as a research tool for developing and solving models and in designing experiments. Thus, the book can serve as both a textbook and a reference book.

Addresses the use of rigorous multicomponent mass transfer models for the simulation and design of process equipment. Deals with the basic equations of diffusion in multicomponent systems. Describes various models and estimations of rates of mass and energy transfer. Covers applications of multicomponent mass transfer models to process design. Includes appendices providing necessary

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mathematical background. Contains a large number of numerical examples worked out in detail.

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

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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 existing in materials engineering. You will benefit from:

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common set of formulation, simplification, and solution methods is applied first to heat or mass transfer in stationary media and then to fluid mechanics, convective heat or mass transfer, and systems involving various kinds of coupled fluxes.

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Improved organization, including the establishment of a more integrative approach * Emphasizes concepts and analytical techniques that apply to all transport processes * Mathematical techniques are introduced

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more gradually to provide students with a better foundation for more complicated topics discussed in later chapters

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