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In the Revised 2nd Edition the authors have endeavored to correct these errors.A new ISBN has been assigned to the Revised 2nd Editionin order to more easily identify the most correct version.... R. Byron Bird is a chemical engineer and professor emeritus in the Department of Chemical Engineering at the University of Wisconsin-Madison. He is ...

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Chapter 1: Viscosity and the Mechanisms of Momentum Transport; Problem 1A.1: Estimation of dense-gas viscosity; Problem 1B.2: A fluid in a state of rigid rotation; Problem 1A.2: Estimation of the viscosity of methyl fluoride; Problem 1B.3: Viscosity of suspensions; Problem 1A.3: Computation of the viscosities of gases at low density; Problem 1C.1: Some consequences of the Maxwell-Boltzmann ...

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Transport Phenomena 2nd Edition Bird Solution Manual

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Transport Phenomena 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 published under the title Notes on Transport Phenomena based on mimeographed notes prepared for a chemical engineering course taught at the University of Wisconsin–Madison during the academic year 1957-1958. The second edition was published in August 2001. A revised second ...

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Transport Phenomena: Edition 3 by R. Byron Bird, Warren E.

Hardcover, Second Edition, 920 pages Published August 7th 2001 by Wiley (first published January 1st 1960) More Details...

Transport Phenomena: Edition 3 by R. Byron Bird, Warren E.

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 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.

Market_Desc: Chemical, Mechanical, Nuclear, 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.

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 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.

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 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 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.

Advanced Transport Phenomena is ideal as a graduate textbook. It contains a detailed discussion of modern analytic methods for the solution of fluid mechanics and heat and mass transfer problems, focusing on approximations based on scaling and asymptotic methods, beginning with the derivation of basic equations and boundary conditions and concluding with linear stability theory. Also covered are unidirectional flows, lubrication and thin-film theory, creeping flows, boundary layer theory, and convective heat and mass transport at high and low Reynolds numbers. The emphasis is on basic physics, scaling and nondimensionalization, and approximations that can be used to obtain solutions that are due either to geometric simplifications, or large or small values of dimensionless parameters. The author emphasizes setting up problems and extracting as much information as possible short of obtaining detailed solutions of differential equations. The book also focuses on the solutions of representative problems. This reflects the book's goal of teaching readers to think about the solution of transport problems.

Analysis of Transport Phenomena, Second Edition, provides a unified treatment of momentum, heat, and mass transfer, emphasizing the concepts and analytical techniques that apply to these transport processes. The second edition has been revised to reinforce the progression from simple to complex topics and to better introduce the applied mathematics that is needed both to understand classical results and to model novel systems. A 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. FEATURES. * Explains classical methods and results, preparing students for engineering practice and more advanced study or research * Covers everything from heat and mass transfer in stationary media to fluid mechanics, free convection, and turbulence * 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 more gradually to provide students with a better foundation for more complicated topics discussed in later chapters

The term 'transport phenomena' describes the fundamental processes of momentum, energy, and mass transfer. This text provides a thorough discussion of transport phenomena, laying the foundation for understanding a wide variety of operations used by chemical engineers. The book is arranged in three parallel parts covering the major topics of momentum, energy, and mass transfer. Each part begins with the theory, followed by illustrations of the way the theory can be used to obtain fairly complete solutions, and concludes with the four most common types of averaging used to obtain approximate solutions. A broad range of technologically important examples, as well as numerous exercises, are provided throughout the text. Based on the author's extensive teaching experience, a suggested lecture outline is also included. This book is intended for first-year graduate engineering students; it will be an equally useful reference for researchers in this field.

Transport Phenomena Second Edition W. J. Beek K. M. K. Muttzall J. W. van Heuven Momentum, heat and mass transport phenomena can be found everywhere in nature. A solid understanding of the principles of these processes is essential for chemical and process engineers. The second edition of Transport Phenomena builds on the foundation of the first edition which presented fundamental knowledge and practical application of momentum, heat and mass transfer processes in a form useful to engineers. This revised edition includes revisions of the original text in addition to new applications providing a thoroughly updated edition. This updated text includes; * An introduction to physical transport analysis including units, dimensional analysis and conservation laws. * A systematic treatment of fluid flow and heat and mass transport, their similarities and dissimilarities. * Theoretical and semi-empirical equations and a condensed overview of practical data. * Illustrative problems showing practical applications. * A problem section at the end of each chapter with answers and explanations.

Transport phenomena is used here to describ-e momentum, energy, mass, and entropy transfer (Bird et al. 1960, 1980). It includes thermodynamics, a special case of which is thermostatics. Interfacial transport phenomena refers to momentum, energy, mass, and entropy transfer within the immediate neighborhood of a phase interface, including the thermodynamics of the interface. In terms of qualitative physical observations, this is a very old field. Pliny the Elder (Gaius Plinius Secundus, 23-79 A.D.; Pliny 1938) described divers who released small quantities of oil from their mouths, in order to damp capillary ripples on the ocean surface and in this way provide more uniform lighting for their work. Similar stories were retold by Benjamin Franklin, who conducted experiments of his own in England (V an Doren 1938). In terms of analysis, this is a generally young field. Surface thermostatics developed relatively early, starting with Gibbs (1948) and continuing with important contributions by many others (see Chapter 5).

This unique resource offers over 200 well-tested bioengineering problems for teaching and examinations. Solutions are available to instructors online.

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