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Now in its eighth edition, Perry's Chemical Engineers' Handbook offers unrivaled, up-to-date coverage of all aspects of chemical engineering. For the first time, individual sections are available for purchase. Now you can receive only the content you need for a fraction of the price of the entire volume. Streamline your research, pinpoint specialized information, and save money by ordering single sections of this definitive chemical engineering reference today. First published in 1934, Perry's Chemical Engineers' Handbook has equipped generations of engineers and chemists with an expert source of chemical engineering information and data. Now updated to reflect the latest technology and processes of the new millennium, the Eighth Edition of this classic guide provides unsurpassed coverage of every aspect of chemical engineering—from fundamental principles to chemical processes and equipment to new computer applications. Filled with over 700 detailed illustrations, the Eighth Edition of Perry's Chemical Engineers' Handbook features: *Comprehensive tables and charts for unit conversion *A greatly expanded section on physical and chemical data *New to this edition: the latest advances in distillation, liquid-liquid extraction, reactor modeling, biological processes, biochemical and membrane separation processes, and chemical plant safety practices with accident case histories

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This book's format follows an applications-oriented text and serves as a training tool for individuals in education and industry involved directly, or indirectly, with chemical reactors. It addresses both technical and calculational problems in this field. While this text can be complimented with texts on chemical kinetics and/or reactor design, it also stands alone as a self-teaching aid. The first part serves as an introduction to the subject title and contains chapters dealing with history, process variables, basic operations, kinetic principles, and conversion variables. The second part of the book addresses traditional reactor analysis; chapter topics include batch, CSTRs, tubular flow reactors, plus a comparison of these classes of reactors. Part 3 keys on reactor applications that include non-ideal reactors: thermal effects, interpretation of

kinetic data, and reactor design. The book concludes with other reactor topics; chapter titles include catalysis, catalytic reactors, other reactions and reactors, and ABET-related topics. An extensive Appendix is also included

Learn and apply heat and mass transfer principles to real-world chemical engineering problems This hands-on textbook provides a concept-based introduction to heat and mass transfer procedures and lays out the foundation to practical applications in a broad range of fields relevant to chemical and biochemical processing. Written by a recognized academic and experienced author, Heat and Mass Transfer for Chemical Engineers: Principles and Applications contains comprehensive discussions on conductive and diffusive processes and the engineering correlations between momentum, heat, and mass transfer. Readers will get Mathematica workbooks that facilitate calculations and explore trends. The book refers extensively to Perry's Chemical Engineers' Handbook, Ninth Edition for data and correlations. Coverage includes: Introduction to heat and mass transfer Thermal conductivity Steady-state, one-dimensional heat conduction Combined conductive and convective heat transfer Multidimensional and transient heat conduction Convective heat transfer Thermal design of heat exchangers Fick's law and diffusivity One-dimensional, multi-dimensional, and transient diffusion Convective mass transfer Design of packed gas absorption and stripping columns Multicomponent diffusion and coupled mass transfer processes Mass transfer with chemical reaction

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The only source that focuses exclusively on engineering and technology, this important guide maps the dynamic and changing field of information sources published for engineers in recent years. Lord highlights basic perspectives, access tools, and English-language

resources--directories, encyclopedias, yearbooks, dictionaries, databases, indexes, libraries, buyer's guides, Internet resources, and more. Substantial emphasis is placed on digital resources. The author also discusses how engineers and scientists use information, the culture and generation of scientific information, different types of engineering information, and the tools and resources you need to locate and access that material. Other sections describe regulations, standards and specifications, government resources, professional and trade associations, and education and career resources. Engineers, scientists, librarians, and other information professionals working with engineering and technology information will welcome this research

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