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This course extends the concepts of the conservation and transport of heat and mass ... and system properties that affect these processes and the sourcing or prediction of appropriate material and ...

Heat and Mass – Conservation and Transfer

Operations such as evaporation, drying , membrane technologies, refrigeration and process cooling systems will be used as examples of how the underlying principles of thermodynamics, conservation and ...

This new third edition provides a modern, unified treatment of the basic transport processes of momentum, heat, and mass transfer, as well as a broad treatment of the unit operations of chemical engineering. Coverage includes the latest membrane separation processes; discussion of bioprocesses; comprehensive treatment of the transport processes of momentum, heat, and mass transfer; adsorption processes; and more. A useful, up-to-date reference for practicing chemical engineers, agricultural engineers, food scientists, environmental engineers, biochemical engineers, and others who work in the process industries.

Appropriate for one-year transport phenomena (also called transport processes)

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and separation processes course. First semester covers fluid mechanics, heat and mass transfer; second semester covers separation process principles (includes unit operations). The title of this Fourth Edition has been changed from Transport Processes and Unit Operations to Transport Processes and Separation Process Principles (Includes Unit Operations). This was done because the term Unit Operations has been largely superseded by the term Separation Processes which better reflects the present modern nomenclature being used. The main objectives and the format of the Fourth Edition remain the same. The sections on momentum transfer have been greatly expanded, especially in the sections on fluidized beds, flow meters, mixing, and non-Newtonian fluids. Material has been added to the chapter on mass transfer. The chapters on absorption, distillation, and liquid-liquid extraction have also been enlarged. More new material has been added to the sections on ion exchange and crystallization. The chapter on membrane separation processes has been greatly expanded especially for gas-membrane theory.

Appropriate for one-year transport phenomena (also called transport processes) and separation processes course. First semester covers fluid mechanics, heat and mass transfer; second semester covers separation process principles (includes unit operations). The title of this Fourth Edition has been changed from Transport Processes and Unit Operations to Transport Processes and Separation Process Principles (Includes Unit Operations). This was done because the term Unit Operations has been largely superseded by the term Separation Processes which

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The Complete, Unified, Up-to-Date Guide to Transport and Separation-Fully Updated for Today's Methods and Software Tools Transport Processes and Separation Process Principles, Fifth Edition, offers a unified and up-to-date treatment of momentum, heat, and mass transfer and separations processes. This edition-reorganized and modularized for better readability and to align with modern chemical engineering curricula-covers both fundamental principles and practical applications, and is a key resource for chemical engineering students and professionals alike. This edition provides New chapter objectives and summaries throughout Better linkages between coverage of heat and mass transfer More coverage of heat exchanger design New problems based on emerging topics such as biotechnology, nanotechnology, and green engineering New instructor resources: additional homework problems, exam questions, problem-solving videos, computational projects, and more Part 1 thoroughly covers the

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fundamental principles of transport phenomena, organized into three sections: fluid mechanics, heat transfer, and mass transfer. Part 2 focuses on key separation processes, including absorption, stripping, humidification, filtration, membrane separation, gaseous membranes, distillation, liquid-liquid extraction, adsorption, ion exchange, crystallization and particle-size reduction, settling, sedimentation, centrifugation, leaching, evaporation, and drying. The authors conclude with convenient appendices on the properties of water, compounds, foods, biological materials, pipes, tubes, and screens. The companion website (trine.edu/transport5ed/) contains additional homework problems that incorporate today's leading software, including Aspen/CHEMCAD, MATLAB, COMSOL, and Microsoft Excel.

Still the only book offering comprehensive coverage of the analysis and design of both API equipment and ASME pressure vessels This edition of the classic guide to the analysis and design of process equipment has been thoroughly updated to reflect current practices as well as the latest ASME Codes and API standards. In addition to covering the code requirements governing the design of process equipment, the book supplies structural, mechanical, and chemical engineers with

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expert guidance to the analysis and design of storage tanks, pressure vessels, boilers, heat exchangers, and related process equipment and its associated external and internal components. The use of process equipment, such as storage tanks, pressure vessels, and heat exchangers has expanded considerably over the last few decades in both the petroleum and chemical industries. The extremely high pressures and temperatures involved with the processes for which the equipment is designed makes it potentially very dangerous to property and life if the equipment is not designed and manufactured to an exacting standard. Accordingly, codes and standards such as the ASME and API were written to assure safety. Still the only guide covering the design of both API equipment and ASME pressure vessels, *Structural Analysis and Design of Process Equipment, 3rd Edition: Covers the design of rectangular vessels with various side thicknesses and updated equations for the design of heat exchangers Now includes numerical vibration analysis needed for earthquake evaluation Relates the requirements of the ASME codes to international standards Describes, in detail, the background and assumptions made in deriving many design equations underpinning the ASME and API standards Includes methods for designing components that are not covered in either the API or ASME, including ring girders, leg supports, and internal components Contains procedures for calculating thermal stresses and discontinuity analysis of various components* *Structural Analysis and Design of Process Equipment, 3rd Edition* is an indispensable tool-of-the-trade for mechanical engineers and chemical engineers working in the petroleum and chemical

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industries, manufacturing, as well as plant engineers in need of a reference for process equipment in power plants, petrochemical facilities, and nuclear facilities.

The subject of transport phenomena has long been thoroughly and expertly addressed on the graduate and theoretical levels. Now *Transport Phenomena and Unit Operations: A Combined Approach* endeavors not only to introduce the fundamentals of the discipline to a broader, undergraduate-level audience but also to apply itself to the concerns of practicing engineers as they design, analyze, and construct industrial equipment. Richard Griskey's innovative text combines the often separated but intimately related disciplines of transport phenomena and unit operations into one cohesive treatment. While the latter was an academic precursor to the former, undergraduate students are often exposed to one at the expense of the other. *Transport Phenomena and Unit Operations* bridges the gap between theory and practice, with a focus on advancing the concept of the engineer as practitioner. Chapters in this comprehensive volume include: Transport Processes and Coefficients Frictional Flow in Conduits Free and Forced Convective Heat Transfer Heat Exchangers Mass Transfer; Molecular Diffusion Equilibrium Staged Operations Mechanical Separations Each chapter contains a set of comprehensive problem sets with real-world quantitative data, affording students the opportunity to test their knowledge in practical situations. Transport

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Phenomena and Unit Operations is an ideal text for undergraduate engineering students as well as for engineering professionals.

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