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- Thermodynamics
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- Reaction Kinetics
- Process Control
- Process Economics
- Transport and Storage of Fluids
- Heat Transfer Equipment
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Evaporative Cooling,
and Solids Drying •
Distillation • Gas
Absorption and Gas-
Liquid System Design •
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Operations and
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Adsorption and Ion
Exchange • Gas-Solid
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Minimum System Requirements
PC with 486 or higher processor
Microsoft Windows 3.1, Windows 95, or Windows NT 3.5.1 or later / 16 MB of RAM 25 MB of available hard-disk space
SVGA monitor / 2x CD-ROM drive / Mouse

Chemical Engineers- Handbook

**5th Ed. Prepared by
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Under the Editorial
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Equipment for Distillation, Gas Absorption, Phase Dispersion, and Phase Separation

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Albright's Chemical Engineering

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Perry's Standard Tables and Formulae For Chemical Engineers *McGraw Hill Professional*

A ready means of the qualitative analysis of chemical processes and plant design.

Perry's chemical engineering handbook

Rules of Thumb for Chemical Engineers

A Manual of Quick, Accurate Solutions to Everyday Process

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Teaching Engineering *Purdue University Press*

This book aims to cover all aspects of teaching engineering and other technical subjects. It presents both practical matters and educational theories in a format that will be useful for both new and experienced teachers.

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physical and chemical data
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Chemical Engineering Volume 2 Elsevier

Chemical Engineering Volume 2 covers the properties of particulate systems, including the character of individual particles and their behaviour in fluids. Sedimentation of particles, both singly and at high concentrations, flow in packed and fluidised beds and filtration are then examined. The latter part of the book

deals with separation processes, such as distillation and gas absorption, which illustrate applications of the fundamental principles of mass transfer introduced in Chemical Engineering Volume 1. In conclusion, several techniques of growing importance - adsorption, ion exchange, chromatographic and membrane separations, and process intensification - are described. A logical progression of chemical engineering concepts, volume 2 builds on fundamental principles contained in Chemical Engineering volume 1 and these volumes are fully cross-referenced. Reflects the growth in complexity and stature of chemical

engineering over the last few years. Supported with further reading at the end of each chapter and graded problems at the end of the book.

Energy Resources, Conversion, and Utilization McGraw

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Process Economics

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The History of the National Socialist Guerrilla Movement, 1944-1946 *University of Toronto Press*

The most complete history to date of the Nazi partisan resistance movement known as the Werwolf at the end of WWII. A fascinating history of great interest to

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Engineering in the Plant. Illustrations. Index.

Handbook of Chemical Engineering Calculations

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- Solid-Solid Operations and Equipment
- Size

Reduction and Size
Enlargement •
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and Packaging of
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Fundamentals of Chemical Engineering Thermodynamics

With Applications to Chemical Processes

Pearson Education

The Clear, Well-Organized Introduction to Thermodynamics Theory and Calculations for All Chemical Engineering Undergraduate Students This text is designed to make thermodynamics far easier for undergraduate chemical engineering students to learn, and to help them perform

thermodynamic calculations with confidence. Drawing on his award-winning courses at Penn State, Dr. Themis Matsoukas focuses on “why” as well as “how.” He offers extensive imagery to help students conceptualize the equations, illuminating thermodynamics with more than 100 figures, as well as 190 examples from within and beyond chemical engineering. Part I clearly introduces the laws of thermodynamics with applications to pure fluids. Part II extends thermodynamics to mixtures, emphasizing phase and chemical equilibrium. Throughout, Matsoukas focuses on topics that link tightly to other key areas of undergraduate

chemical engineering, including separations, reactions, and capstone design. More than 300 end-of-chapter problems range from basic calculations to realistic environmental applications; these can be solved with any leading mathematical software. Coverage includes • Pure fluids, PVT behavior, and basic calculations of enthalpy and entropy • Fundamental relationships and the calculation of properties from equations of state • Thermodynamic analysis of chemical processes • Phase diagrams of binary and simple ternary systems • Thermodynamics of mixtures using equations of state • Ideal and nonideal solutions • Partial

miscibility, solubility of gases and solids, osmotic processes • Reaction equilibrium with applications to single and multiphase reactions

Living Buildings

Architectural Conservation : Philosophy, Principles and Practice *Images Publishing*

Living Buildings celebrates the 50th Anniversary of Donald Insall Associates, the Practice founded by distinguished British architect Donald Insall, a leading exponent in the field of Architectural Conservation. Probably best known for the restoration of

The AIChE Pocket Handbook *Amer Inst*

of Chemical Engineers

**Liquid-Liquid
Extraction and Other
Liquid-Liquid
Operations and
Equipment**

*McGraw
Hill Professional*

Get Cutting-Edge Coverage of All Chemical Engineering Topics— from Fundamentals to the Latest Computer Applications 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 Engineering 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 Inside This Updated Chemical Engineering Guide -

Conversion Factors and Mathematical Symbols • Physical and Chemical Data • Mathematics • Thermodynamics • Heat and Mass Transfer • Fluid and Particle Dynamics • Reaction Kinetics • Process Control • Process Economics • Transport and Storage of Fluids • Heat Transfer Equipment • Psychrometry, Evaporative Cooling, and Solids Drying • Distillation • Gas Absorption and Gas-Liquid System Design • Liquid-Liquid Extraction Operations and Equipment • Adsorption and Ion Exchange • Gas-Solid Operations and Equipment • Liquid-Solid Operations and Equipment • Solid-Solid Operations and Equipment • Size

Reduction and Size Enlargement • Handling of Bulk Solids and Packaging of Solids and Liquids • Alternative Separation Processes • And Many Other Topics!

Trans Dilemmas

Living in Australia's Remote Areas and in Aboriginal Communities

Routledge

Trans Dilemmas presents the findings of a three-year research project which examined the lived experiences of trans people in Australia's Northern Territory. The book argues that whilst trans people, who live in remote areas, experience issues which may not be distinct from those living in urban areas and the inner-city,

these issues can be aggravated by geographic and demographic factors. By conducting online surveys and in-depth interviews, Stephen Kerry brings to light the issues for transgender people which are compounded by living in sparsely populated, remote communities. Namely social isolation, maintaining relationships with friends, family and partners, and the difficulties accessing health care. The book also includes significant findings on the experiences and treatment of Australia's trans Aboriginal people, also known as sistergirls and brotherboys. An analysis of first-person narratives by sistergirls and brotherboys

reveals the racism within predominantly white trans communities and transphobia within traditional Aboriginal communities, which they are uniquely faced with. Trans Dilemmas represents an important contribution to contemporary research into the lives of transgender Australians. It gives a voice to those transgender people living in the more isolated communities in Australia, which up until now, have been largely unheard. For students and researchers in Queer Studies and Gender Studies, this is valuable reading.

**PERRY'S CHEMICAL
ENGINEER'S
HANDBOOK 8/E**

SECTION 5 HEAT & MASS TRANSFER (POD)

McGraw Hill Professional

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

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Physical and Thermodynamic Properties of Pure Chemicals

Data Compilation

Endurance of Life

The Implications of Genetics for Human Life *Cambridge University Press*

Execution Dock

A William Monk Novel *Ballantine Books*
On the bustling docks along the River Thames, Great Britain's

merchant ships unload the treasures of the world. And here, in dank and sinister alleys, sex merchants ply their lucrative trade. The dreaded kingpin of this dark realm is Jericho Phillips, who seems far beyond the reach of the law. But when thirteen-year-old Fig is found with his throat cut, Commander William Monk of the River Police swears that Phillips will hang for this abomination. Monk's wife, Hester, draws a highly unusual guerrilla force to her husband's cause—a canny ratcatcher, a retired brothel keeper, a fearless street urchin, and a rebellious society lady. To one as criminally minded as Phillips, these folks are mere mosquitoes, to be sure. But as he will

soon discover, some mosquitoes can have a deadly sting.

The PICU Book

A Primer for Medical Students, Residents and Acute Care Practitioners *World Scientific*

This book is a clinical guide in the practice of pediatric critical care and can serve as a roadmap for an introductory journey through this broad and challenging subspecialty. Key topics intrinsic to the practice of pediatric critical care are addressed from an organ-system and disease-specific perspective, and tailored to the needs of new learners. Comprehensive, practical and up-to-date information is

provided in a user-friendly format that facilitates both learning and care implications. Each topic is analyzed and discussed in a custom-built section to provide both an overview and the necessary detail to help the reader participate in and contribute to patient care. Definitions, etiologies, physical findings, laboratory and radiologic data, differential diagnoses, management, suggested consultations and prognosis are condensed using easy-to-find boxes, bulleted lists, decision trees, tables and illustrations.

Gas-Solid Operations and Equipment *McGraw Hill Professional*
Get Cutting-Edge

Coverage of All Chemical Engineering Topics— from Fundamentals to the Latest Computer Applications 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,

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Reaction Kinetics • Process Control • Process Economics • Transport and Storage of Fluids • Heat Transfer Equipment • Psychrometry, Evaporative Cooling, and Solids Drying • Distillation • Gas Absorption and Gas-Liquid System Design • Liquid-Liquid Extraction Operations and Equipment • Adsorption and Ion Exchange • Gas-Solid Operations and Equipment • Liquid-Solid Operations and Equipment • Solid-Solid Operations and Equipment • Size Reduction and Size Enlargement • Handling of Bulk Solids and Packaging of Solids and Liquids • Alternative Separation Processes • And Many Other Topics!

Nonlinear Programming

Concepts, Algorithms, and Applications to Chemical Processes *SIAM*

This book addresses modern nonlinear programming (NLP) concepts and algorithms, especially as they apply to challenging applications in chemical process engineering. The author provides a firm grounding in fundamental NLP properties and algorithms, and relates them to real-world problem classes in process optimization, thus making the material understandable and useful to chemical engineers and experts in mathematical

optimization.

Fluid Mechanics, Heat Transfer, and Mass Transfer

Chemical Engineering Practice

John Wiley & Sons

This broad-based book covers the three major areas of Chemical Engineering. Most of the books in the market involve one of the individual areas, namely, Fluid Mechanics, Heat Transfer or Mass Transfer, rather than all the three. This book presents this material in a single source. This avoids the user having to refer to a number of books to obtain information. Most published books covering all the three areas in a single source emphasize theory rather than practical

issues. This book is written with emphasis on practice with brief theoretical concepts in the form of questions and answers, not adopting stereo-typed question-answer approach practiced in certain books in the market, bridging the two areas of theory and practice with respect to the core areas of chemical engineering. Most parts of the book are easily understandable by those who are not experts in the field. Fluid Mechanics chapters include basics on non-Newtonian systems which, for instance find importance in polymer and food processing, flow through piping, flow measurement, pumps, mixing technology and fluidization and two

phase flow. For example it covers types of pumps and valves, membranes and areas of their use, different equipment commonly used in chemical industry and their merits and drawbacks. Heat Transfer chapters cover the basics involved in conduction, convection and radiation, with emphasis on insulation, heat exchangers, evaporators, condensers, reboilers and fired heaters. Design methods, performance, operational issues and maintenance problems are highlighted. Topics such as heat pipes, heat pumps, heat tracing, steam traps, refrigeration, cooling of electronic devices, NO_x control find place in the book. Mass transfer chapters cover basics such as diffusion, theories, analogies, mass transfer coefficients and mass transfer with chemical reaction, equipment such as tray and packed columns, column internals including structural packings, design, operational and installation issues, drums and separators are discussed in good detail. Absorption, distillation, extraction and leaching with applications and design methods, including emerging practices involving Divided Wall and Petluk column arrangements, multicomponent separations, supercritical solvent extraction find place in the book.

Chemical

**Engineering:
Solutions to the
Problems in Volume
1** *Elsevier*

This volume in the Coulson and Richardson series in chemical engineering contains full worked solutions to the problems posed in volume 1. Whilst the main volume contains illustrative worked examples throughout the text, this book contains answers to the more challenging questions posed at the end of each chapter of the main text. These questions are of both a standard and non-standard nature, and so will prove to be of interest to both academic staff teaching courses in this area and to the keen student. Chemical engineers in industry who are looking for a

standard solution to a real-life problem will also find the book of considerable interest. * An invaluable source of information for the student studying the material contained in Chemical Engineering Volume 1 * A helpful method of learning - answers are explained in full

**Physical Chemistry
for Chemists and
Chemical Engineers**

**Multidisciplinary
Research
Perspectives** *CRC
Press*

This volume is based on different aspects of chemical technology that are associated with research and the development of theories for chemical engineers, helping to bridge the gap between classical

analysis and modern, real-life applications. Taking an interdisciplinary approach, the authors present the current state-of-the-art technology in key materials with an emphasis on the rapidly growing technologies.

Intelligent Surfaces in Biotechnology

Scientific and Engineering Concepts, Enabling Technologies, and Translation to Bio-Oriented Applications

John Wiley & Sons

A comprehensive overview of smart and responsive surfaces in biotechnology and their applications. A wave of recent advances in cell biology,

biophysics, chemistry, and materials science has enabled the development of a new generation of smart biomaterials.

Intelligent Surfaces in Biotechnology: Scientific and Engineering Concepts, Enabling Technologies, and Translation to Bio-Oriented Applications provides readers with a comprehensive overview of surface modifications and their applications, including coverage of the physico-chemical properties, characterization methods, smart coating technologies, and demonstration of performance in vitro and in vivo. The first part of the book covers applications in the fields of biosensing and biodiagnostics, while

the second part focuses more on coatings for medical devices, drug delivery, and tailored cell-surface interactions. The book explores intelligent surface applications such as tissue engineering, drug targeting and delivery, wound healing and anti-infection strategies, biosensors, nanopatterning, and bioinspired design of novel responsive materials and multifunctional surfaces. Designed to aid scientists and engineers in understanding the rapidly developing field of biofunctional surfaces, *Intelligent Surfaces in Biotechnology* is an edited volume with each chapter written by a respected expert and featuring examples

taken from the most state-of-the-art developments in the discipline. Cover Image: Design concept for a diagnostic microfluidic system based on responsive polymer- and antibody-conjugated nanobeads (see Chapter 2 of this book, Figure 2.5; reproduced by permission from the Royal Society of Chemistry).

The Life of Michelangelo
Bonarroti *Wentworth Press*

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**PERRY'S CHEMICAL
ENGINEER'S
HANDBOOK 8/E
SECTION 2 PHYSICAL
& CHEM DATA (POD)**

*McGraw Hill
Professional*

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Working Guide to Process Equipment, Third Edition McGraw Hill Professional
Diagnose and

Troubleshoot Problems in Chemical Process Equipment with This Updated Classic! Chemical engineers and plant operators can rely on the Third Edition of *A Working Guide to Process Equipment* for the latest diagnostic tips, practical examples, and detailed illustrations for pinpointing trouble and correcting problems in chemical process equipment. This updated classic contains new chapters on Control Valves, Cooling Towers, Waste Heat Boilers, Catalytic Effects, Fundamental Concepts of Process Equipment, and Process Safety. Filled with worked-out calculations, the book examines everything from trays, reboilers, instruments, air coolers, and steam turbines...to fired heaters, refrigeration systems, centrifugal pumps, separators, and compressors. The authors simplify complex issues and explain the technical issues needed to solve all kinds of equipment problems.

Comprehensive and clear, the Third Edition of *A Working Guide to Process Equipment* features: Guidance on diagnosing and troubleshooting process equipment problems Explanations of how theory applies to real-world equipment operations Many useful tips, examples, illustrations, and worked-out calculations New to this edition: Control Valves, Cooling Towers, Waste Heat Boilers, Catalytic

Effects, and Process
Safety Inside this
Renowned Guide to
Solving Process
Equipment Problems •
Trays • Tower Pressure
• Distillation Towers •
Reboilers •
Instruments • Packed
Towers • Steam and
Condensate Systems •
Bubble Point and Dew
Point • Steam Strippers
• Draw-Off Nozzle
Hydraulics •
Pumparounds and
Tower Heat Flows •
Condensers and Tower
Pressure Control • Air
Coolers • Deaerators
and Steam Systems •
Vacuum Systems •
Steam Turbines •
Surface Condensers •
Shell-and-Tube Heat
Exchangers • Fire
Heaters • Refrigeration
Systems • Centrifugal
Pumps • Separators •
Compressors • Safety •
Corrosion • Fluid Flow
• Computer Modeling
and Control • Field
Troubleshooting
Process Problems