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Chemical Engineering Thermodynamics RAO 1997

Detection of Intrusions and Malware, and Vulnerability Assessment
Roberto Perdisci 2019-06-10 This book constitutes the proceedings of the 16th International Conference on Detection of Intrusions and Malware, and Vulnerability Assessment, DIMVA 2019, held in Gothenburg, Sweden, in June 2019. The 23 full papers presented in this volume were carefully reviewed and selected from 80 submissions. The contributions were organized in topical sections named: wild wild web; cyber-physical systems; malware; software security and binary analysis; network security; and attack mitigation.

Helical Piles Howard A. Perko 2009-10-19 An unbiased, comprehensive review of helical pile technology and applications Helical piles have risen from being merely an interesting alternative for special cases to a frequently requested, more widely accepted deep foundation adopted into the 2009 International Building Code. The first alternative to manufacturer-produced manuals, Howard Perko's *Helical Piles: A Practical Guide to Design and Installation* answers the industry's need for an unbiased and universally applicable text dedicated to the design and installation of helical piles, helical piers, screw piles, and torque anchors. Fully compliant with ICC-Evaluation Services, Inc., Acceptance Criteria for Helical Foundation Systems and Devices (AC308), this comprehensive reference guides construction professionals to manufactured helical pile systems and technology, providing objective insights into the benefits of helical pile foundations over driven or cast foundation systems, and recommending applications where appropriate. After introducing the reader to the basic features, terminology, history, and modern applications of helical pile technology, chapters discuss: Installation and basic geotechnics Bearing and pullout capacity Capacity verification through torque Axial load testing, reliability, and sizing Expansive soil and lateral load resistance Corrosion and life expectancy Foundation, earth retention, and underpinning systems Foundation economics Select proprietary systems IBC and NYC Building codes Covering such issues of concern as environmental sustainability, *Helical Piles* provides contractors and engineers as well as students in civil engineering with a practical, real-world guide to the design and installation of helical piles.

The Art of Deception Kevin D. Mitnick 2011-08-04 The world's most infamous hacker offers an insider's view of the low-tech threats to high-tech security Kevin Mitnick's exploits as a cyber-desperado and fugitive form one of the most exhaustive FBI manhunts in history and have spawned dozens of articles, books, films, and documentaries. Since his release from federal prison, in 1998, Mitnick has turned his life around and established himself as one of the most sought-after computer security experts worldwide. Now, in *The Art of Deception*, the world's most notorious hacker gives new meaning to the old adage, "It takes a thief to catch a thief." Focusing on the human factors involved with information security, Mitnick explains why all the firewalls and encryption protocols in the world will never be enough to stop a savvy grifter intent on rifling a corporate database or an irate employee determined to crash a system. With the help of many fascinating true stories of successful attacks on business and government, he illustrates just how susceptible even the most locked-down information systems are to a slick con artist impersonating an IRS agent. Narrating from the points of view of both the attacker and the victims, he explains why each attack was so successful and how it could have been prevented in an engaging and highly readable style reminiscent of a true-crime novel. And, perhaps most importantly, Mitnick offers advice for preventing these types of social engineering hacks through security protocols, training programs, and manuals that address the human element of security.

Elementary Principles of Chemical Processes, 3rd Edition 2005 Edition Integrated Media and Study Tools, with Student Workbook Richard M. Felder 2005-02-02 This best selling text prepares students to formulate and solve material and energy balances in chemical process systems and lays the foundation for subsequent courses in chemical engineering. The text provides a realistic, informative, and positive introduction to the practice of chemical engineering. The Integrated Media Edition update provides a stronger link between the text, media supplements, and new student workbook.

Guide to Computer Forensics and Investigations Bill Nelson 2014-11-07 Updated with the latest advances from the field, *GUIDE TO COMPUTER FORENSICS AND INVESTIGATIONS*, Fifth Edition combines all-encompassing topic coverage and authoritative information from seasoned experts to deliver the most comprehensive forensics resource available. This proven author team's wide ranging areas of expertise mirror the breadth of coverage provided in the book, which focuses on techniques and practices for gathering and analyzing evidence used to solve crimes involving computers. Providing clear instruction on the tools and techniques of the trade, it introduces readers to every step of the computer forensics investigation—from lab set-up to testifying in court. It also details step-by-step guidance on how to use current forensics software. Appropriate for learners new to the field, it is also an excellent refresher and technology update for professionals in law enforcement, investigations, or computer security. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Chemical Engineering Process Simulation Nishanth G. Chemmangattuvalappil 2017-07-13 *Chemical Engineering Process Simulation* is ideal for students, early career researchers, and practitioners, as it guides you through chemical processes and unit operations using the main simulation softwares that are used in the industrial sector. This book will help you predict the characteristics of a process using mathematical models and computer-aided process simulation tools, as well as model and simulate process performance before detailed process design takes place. Content coverage includes steady and dynamic simulations, the similarities and differences between process simulators, an introduction to operating units, and convergence tips and tricks. You will also learn about the use of simulation for risk studies to enhance process resilience, fault finding in abnormal situations, and for training operators to control the process in difficult situations. This experienced author team combines industry knowledge with effective teaching methods to make an accessible and clear comprehensive guide to process simulation. Ideal for students, early career researchers, and practitioners, as it guides you through chemical processes and unit operations using the main simulation softwares that are used in the industrial sector. Covers the fundamentals of process simulation, theory, and advanced applications Includes case studies of various difficulty levels to practice and apply the developed skills Features step-by-step guides to using Aspen Plus and HYSYS for process simulations available on companion site Helps readers predict the characteristics of a process using mathematical models and computer-aided process simulation tools

Petroleum Refinery Process Modeling Y. A. Liu 2018-02-09 A comprehensive review of the theory and practice of the simulation and optimization of the petroleum refining processes *Petroleum Refinery Process Modeling* offers a thorough review of how to quantitatively model key refinery reaction and fractionation processes. The text introduces the basics of dealing with the thermodynamics and physical property predictions of hydrocarbon components in the context of process modeling. The authors - three experts on the topic - outline the

procedures and include the key data required for building reaction and fractionation models with commercial software. The text shows how to filter through the extensive data available at the refinery and using plant data to begin calibrating available models and extend the models to include key fractionation sub-models. It provides a sound and informed basis to understand and exploit plant phenomena to improve yield, consistency, and performance. In addition, the authors offer information on applying models in an overall refinery context through refinery planning based on linear programming. This important resource: -Offers the basic information of thermodynamics and physical property predictions of hydrocarbon components in the context of process modeling -Uses the key concepts of fractionation lumps and physical properties to develop detailed models and workflows for atmospheric (CDU) and vacuum (VDU) distillation units -Discusses modeling FCC, catalytic reforming and hydroprocessing units Written for chemical engineers, process engineers, and engineers for measurement and control, this resource explores the advanced simulation tools and techniques that are available to support experienced and aid new operators and engineers.

Procyanidins Veronica Sanda Chedea 2016-12-01 Procyanidins are phenolic compounds from plants and they are abundant in our diet. Research studies on procyanidins have shown that they have many health benefits, especially as preventive agents for cancer, cardiovascular diseases and diabetes. High concentrations of procyanidins can be found in plants and foods such as red wine, grapes, grape seeds, cocoa, berries and apples. The first chapter of this book reviews the occurrence and the structure of these compounds. Since the extraction method is considered a critical step in procyanidin analysis, the second chapter describes the various methods used in literature so far with reference to the most important factors influencing the extraction. Furthermore, common separation and detection methods like high performance liquid chromatography and mass spectrometry are presented in order to give the complex image of the existing methods described so far. These principles of procyanidin fingerprinting are reflected further in studying the seed shells of the Japanese horse chestnut (*Aesculus turbinata* BLUME), discarded as waste materials after the preparation of edible seeds. The highly polymeric proanthocyanidins from the Japanese horse chestnut were tested for their health benefits, and this is presented in Chapter Three. As the interest in antioxidant compounds increases, the interest in studying their bioavailability has increased as well. In the context of controversy surrounding the studies on procyanidins absorption and metabolism, the next chapter tries to present different points of view related to this matter. Several applications of procyanidins in food systems are reviewed in Chapter Five, including: Co-encapsulation of green tea catechins on probiotic bacteria viability during simulated gastrointestinal digestion, stability of polyphenolic compounds on alginate, and chitosan microcapsules and procyanidin effectiveness after incorporation into food edible films. The final part of this book investigates the procyanidin structure-activity relationship and mechanisms of cardiovascular diseases because the intake of procyanidins has been associated with reduced cardiovascular disease risk by epidemiologic studies. The expertise of the authors contributing to this book is useful for graduates studying food science and technology, nutrition, pharmacy and health, and for researchers, scientists, policymakers and professionals from food, pharmacy, nutrition and biotechnology industries working on procyanidins characterization, antioxidant properties and health benefits.

Applied Process Design for Chemical and Petrochemical Plants Ernest E. Ludwig 1965

Foundation Engineering Analysis and Design An-Bin Huang 2017-12-06 One of the core roles of a practising geotechnical engineer is to analyse and design foundations. This textbook for advanced undergraduates and graduate students covers the analysis, design and construction of shallow and deep foundations and retaining structures as well as the stability analysis and mitigation of slopes. It progressively introduces critical state soil mechanics and plasticity theories such as plastic limit analysis and cavity expansion theories before leading into the theories of foundation, lateral earth pressure and slope stability analysis. On the engineering side, the book introduces construction and testing methods used in current practice. Throughout it emphasizes the connection between theory and practice. It prepares readers for the more sophisticated non-linear elastic-plastic analysis in foundation engineering which is commonly used in engineering practice, and serves too as a reference book for practising engineers. A companion website provides a series of Excel spreadsheet programs to cover all examples included in the book, and PowerPoint lecture slides and a solutions manual for

lecturers. Using Excel, the relationships between the input parameters and the design and analysis results can be seen. Numerical values of complex equations can be calculated quickly. non-linearity and optimization can be brought in more easily to employ functional numerical methods. And sophisticated methods can be seen in practice, such as p-y curve for laterally loaded piles and flexible retaining structures, and methods of slices for slope stability analysis.

Engineering Design George E. Dieter 2008-05-01

Principles of Foundation Engineering Braja M. Das 2018-10-03 Master the core concepts and applications of foundation analysis and design with Das/Sivakugan's best-selling PRINCIPLES OF FOUNDATION ENGINEERING, 9th Edition. Written specifically for those studying undergraduate civil engineering, this invaluable resource by renowned authors in the field of geotechnical engineering provides an ideal balance of today's most current research and practical field applications. A wealth of worked-out examples and figures clearly illustrate the work of today's civil engineer, while timely information and insights help readers develop the critical skills needed to properly apply theories and analysis while evaluating soils and foundation design. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Rules of Thumb for Chemical Engineers Carl Branan 2002 The most complete guide of its kind, this is the standard handbook for chemical and process engineers. All new material on fluid flow, long pipe, fractionators, separators and accumulators, cooling towers, gas treating, blending, troubleshooting field cases, gas solubility, and density of irregular solids. This substantial addition of material will also include conversion tables and a new appendix, "Shortcut Equipment Design Methods." This convenient volume helps solve field engineering problems with its hundreds of common sense techniques, shortcuts, and calculations. Here, in a compact, easy-to-use format, are practical tips, handy formulas, correlations, curves, charts, tables, and shortcut methods that will save engineers valuable time and effort. Hundreds of common sense techniques and calculations help users quickly and accurately solve day-to-day design, operations, and equipment problems.

Vogels Textbook Of Quantitative Chemical Analysis Mendham 2006-02

A TEXTBOOK OF CHEMICAL ENGINEERING THERMODYNAMICS K. V. NARAYANAN 2013-01-11 Designed as an undergraduate-level textbook in Chemical Engineering, this student-friendly, thoroughly class-room tested book, now in its second edition, continues to provide an in-depth analysis of chemical engineering thermodynamics. The book has been so organized that it gives comprehensive coverage of basic concepts and applications of the laws of thermodynamics in the initial chapters, while the later chapters focus at length on important areas of study falling under the realm of chemical thermodynamics. The reader is thus introduced to a thorough analysis of the fundamental laws of thermodynamics as well as their applications to practical situations. This is followed by a detailed discussion on relationships among thermodynamic properties and an exhaustive treatment on the thermodynamic properties of solutions. The role of phase equilibrium thermodynamics in design, analysis, and operation of chemical separation methods is also deftly dealt with. Finally, the chemical reaction equilibria are skillfully explained. Besides numerous illustrations, the book contains over 200 worked examples, over 400 exercise problems (all with answers) and several objective-type questions, which enable students to gain an in-depth understanding of the concepts and theory discussed. The book will also be a useful text for students pursuing courses in chemical engineering-related branches such as polymer engineering, petroleum engineering, and safety and environmental engineering. New to This Edition • More Example Problems and Exercise Questions in each chapter • Updated section on Vapour-Liquid Equilibrium in Chapter 8 to highlight the significance of equations of state approach • GATE Questions up to 2012 with answers

Applied Process Design for Chemical and Petrochemical Plants: Volume 1 Ernest E. Ludwig 1995-02-23 This expanded edition introduces new design methods and is packed with examples, design charts, tables, and performance diagrams to add to the practical understanding of how selected equipment can be expected to perform in the process situation. A major addition is the comprehensive chapter on process safety design considerations, ranging from new devices and components to updated venting requirements for low-pressure storage tanks to the latest NFPA methods for sizing rupture disks and bursting panels, and more.

*Completely revised and updated throughout *The definitive guide for process engineers and designers *Covers a complete range of basic day-

to-day operation topics

Physical Chemistry: A Molecular Approach Donald A. McQuarrie

1997-08-20 Emphasizes a molecular approach to physical chemistry, discussing principles of quantum mechanics first and then using those ideas in development of thermodynamics and kinetics. Chapters on quantum subjects are interspersed with ten math chapters reviewing mathematical topics used in subsequent chapters. Includes material on current physical chemical research, with chapters on computational quantum chemistry, group theory, NMR spectroscopy, and lasers. Units and symbols used in the text follow IUPAC recommendations. Includes exercises. Annotation copyrighted by Book News, Inc., Portland, OR

Differential Equations in Applications V. V. Amel'kin 1990

Solar Engineering of Thermal Processes John A. Duffie 2006-08-25

The updated, cornerstone engineering resource of solar energy theory and applications. Solar technologies already provide energy for heat, light, hot water, electricity, and cooling for homes, businesses, and industry. Because solar energy only accounts for one-tenth of a percent of primary energy demand, relatively small increases in market penetration can lead to very rapid growth rates in the industry???which is exactly what has been projected for coming years as the world moves away from carbon-based energy production. Solar Engineering of Thermal Processes, Third Edition provides the latest thinking and practices for engineering solar technologies and using them in various markets. This Third Edition of the acknowledged leading book on solar engineering features: Complete coverage of basic theory, systems design, and applications Updated material on such cutting-edge topics as photovoltaics and wind power systems New homework problems and exercises

Treatment for Children with Selective Mutism R. Lindsey Bergman

2013-01-10 Treatment for Children with Selective Mutism outlines the sequence and essential elements to guide clinicians through a comprehensive, integrated program for young children who display symptoms of SM.

Process Analysis and Simulation in Chemical Engineering Iván

Darío Gil Chaves 2015-11-27 This book offers a comprehensive coverage of process simulation and flowsheeting, useful for undergraduate students of Chemical Engineering and Process Engineering as theoretical and practical support in Process Design, Process Simulation, Process Engineering, Plant Design, and Process Control courses. The main concepts related to process simulation and application tools are presented and discussed in the framework of typical problems found in engineering design. The topics presented in the chapters are organized in an inductive way, starting from the more simplistic simulations up to some complex problems.

Transport Phenomena Robert Byron Bird 1960

Metal Building Systems Design and Specifications 2/E Alexander Newman 2003-12-11 * Reflects recent changes in the model building codes and in the MBMA (Metal Building Manual Association) manual * New review questions after each chapter * Revised data on insulation necessary to meet the new energy codes * New material on renovations of primary frames, secondary members, roofing, and walls

Science and Technology of Rubber James E. Mark 2011-07-28 The 3rd edition of The Science and Technology of Rubber provides a broad survey of elastomers with special emphasis on materials with a rubber-like elasticity. As in the 2nd edition, the emphasis remains on a unified treatment of the material; exploring topics from the chemical aspects such as elastomer synthesis and curing, through recent theoretical developments and characterization of equilibrium and dynamic properties, to the final applications of rubber, including tire engineering and manufacturing. Many advances have been made in polymer and elastomers research over the past ten years since the 2nd edition was published. Updated material stresses the continuous relationship between the ongoing research in synthesis, physics, structure and mechanics of rubber technology and industrial applications. Special attention is paid to recent advances in rubber-like elasticity theory and new processing techniques for elastomers. This new edition is comprised of 20% new material, including a new chapter on environmental issues and tire recycling. · Explores new applications of rubber within the tire industry, from new filler materials to “green tires (a tire that has yet to undergo curing and vulcanization). · 30% of the material has been revised from the previous edition with the addition of 20% new material, including a chapter on the environment. · A mixture of theory, experiments, and practical procedures will offer value to students, practitioners, and research & development departments in industry.

Applied Process Design for Chemical and Petrochemical Plants:

Ernest E. Ludwig 2001-08-13 This third edition of Applied Process Design

for Chemical and Petrochemical Plants, Volume 3, is completely revised and updated throughout to make this standard reference more valuable than ever. It has been expanded by more than 200 pages to include the latest technological and process developments in heat transfer, refrigeration, compression and compression surge drums, and mechanical drivers. Like other volumes in this classic series, this one emphasizes how to apply techniques of process design and how to interpret results into mechanical equipment details. It focuses on the applied aspects of chemical engineering design to aid the design and/or project engineers in rating process requirements, specifying for purchasing purposes, and interpreting and selecting the mechanical equipment needed to satisfy the process functions. Process chemical engineering and mechanical hydraulics are included in the design procedures. Includes updated information that allows for efficiency and accuracy in daily tasks and operations Part of a classic series in the industry

Enterprise IoT Dirk Slama 2015-10-29 Current hype aside, the Internet of Things will ultimately become as fundamental as the Internet itself, with lots of opportunities and trials along the way. To help you navigate these choppy waters, this practical guide introduces a dedicated methodology for businesses preparing to transition towards IoT-based business models. With a set of best practices based on case study analysis, expert interviews, and the authors' own experience, the Ignite | IoT Methodology outlined in this book delivers actionable guidelines to assist you with IoT strategy management and project execution. You'll also find a detailed case study of a project fully developed with this methodology. This book consists of three parts: Illustrative case studies of selected IoT domains, including smart energy, connected vehicles, manufacturing and supply chain management, and smart cities The Ignite | IoT Methodology for defining IoT strategy, preparing your organization for IoT adoption, and planning and executing IoT projects A detailed case study of the IIC Track & Trace testbed, one of the first projects to be fully developed according to the Ignite | IoT Methodology

Oxford Handbook of Cardiology Punit Ramrakha 2012-02-23

Cardiovascular disease remains the major cause of morbidity and mortality throughout developed countries and is also rapidly increasing in developing countries. Cardiovascular medicine and the specialty of cardiology continue to expand, and the remit of the cardiologist is forever broader with the development of new sub-specialties. The Oxford Handbook of Cardiology provides a comprehensive but concise guide to all modern cardiological practice with an emphasis on practical clinical management in many different contexts. This second edition addresses all the key advances made in the field since the previous edition, including interventional cardiology, electrophysiology, and pharmacology. It expands the remit to medical students and the more junior doctor while retaining the level of detail required by more senior practitioners within the field.

Geothermal Reservoir Engineering Malcomm Grant 2013-02-07

Geothermal Reservoir Engineering offers a comprehensive account of geothermal reservoir engineering and a guide to the state-of-the-art technology, with emphasis on practicality. Topics covered include well completion and warm-up, flow testing, and field monitoring and management. A case study of a geothermal well in New Zealand is also presented. Comprised of 10 chapters, this book opens with an overview of geothermal reservoirs and the development of geothermal reservoir engineering as a discipline. The following chapters focus on conceptual models of geothermal fields; simple models that illustrate some of the processes taking place in geothermal reservoirs under exploitation; measurements in a well from spudding-in up to first discharge; and flow measurement. The next chapter provides a case history of one well in the Broadlands Geothermal Field in New Zealand, with particular reference to its drilling, measurement, discharge, and data analysis/interpretation. The changes that have occurred in exploited geothermal fields are also reviewed. The final chapter considers three major problems of geothermal reservoir engineering: rapid entry of external cooler water, or return of reinjected water, in fractured reservoirs; the effects of exploitation on natural discharges; and subsidence. This monograph serves as both a text for students and a manual for working professionals in the field of geothermal reservoir engineering. It will also be of interest to engineers and scientists of other disciplines.

Fundamentals of Chemical Engineering Thermodynamics, SI Edition Kevin D. Dahm 2014-02-21 A brand new book, FUNDAMENTALS OF CHEMICAL ENGINEERING THERMODYNAMICS makes the abstract subject of chemical engineering thermodynamics more accessible to undergraduate students. The subject is presented through a problem-solving inductive (from specific to general) learning approach, written in a conversational and

approachable manner. Suitable for either a one-semester course or two-semester sequence in the subject, this book covers thermodynamics in a complete and mathematically rigorous manner, with an emphasis on solving practical engineering problems. The approach taken stresses problem-solving, and draws from best practice engineering teaching strategies. **FUNDAMENTALS OF CHEMICAL ENGINEERING THERMODYNAMICS** uses examples to frame the importance of the material. Each topic begins with a motivational example that is investigated in context to that topic. This framing of the material is helpful to all readers, particularly to global learners who require big picture insights, and hands-on learners who struggle with abstractions. Each worked example is fully annotated with sketches and comments on the thought process behind the solved problems. Common errors are presented and explained. Extensive margin notes add to the book accessibility as well as presenting opportunities for investigation. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Fundamentals Of Foods, Nutrition And Diet Therapy Sumati R. Mudambi 2007-01-01 This Book Has Consistently Been Used By Students Studying The First Course In Food Science And Nutrition. In Several Universities, Diet Therapy Topics Have Been Added In The Curricula Of This Course. Therefore, Diet Therapy Has Been Added In This Revision, With A Hope Of Meeting The Changing Needs Of The Readers In This Area. The Revised Edition Incorporates Various Other Subjects, Which Are More Or Less Related To The Useful Subjects, Like Nursing, Education, Art, Social Sciences, Home Science, Medical And Paramedical Sciences, Agriculture, Community Health, Environmental Health And Pediatrics Etc. The Book Is Intended To Be An Ideal Textbook Encompassing The Following Aspects: * Introduction To The Study Of Nutrition * Nutrients And Energy * Foods * Meal Planning And Management * Diet Therapy Various Modifications Have Been Done Along With Clear Illustrations, Charts and Tables For A Visualised Practical Knowledge. Every Chapter Is Presented In A Beautiful Style With An Understandable Approach. Abbreviations Of All Terms Are Given. Glossary Is Also Available At The End For Clear Understanding. Appendices, Food Exchange Lists, Recommended Dietary Allowances For Indians And Food Composition Tables Have Also Been Included. So Many Other Useful Informations Are Given, Regarding The Food And Dietary Habits According To The Age And Height Of Males/Females. We Hope This Textbook Would Fulfil The Goal Of Serving The Cause In An Appropriate Manner Nutrition For A Disease-Free Society. **Fully Automated Luxury Communism** Aaron Bastani 2020-06-16 A different kind of politics for a new kind of society--beyond work, scarcity and capitalism In the twenty-first century, new technologies should liberate us from work. Automation, rather than undermining an economy built on full employment, is instead the path to a world of liberty, luxury and happiness—for everyone. Technological advance will reduce the value of commodities—food, healthcare and housing—towards zero. Improvements in renewable energies will make fossil fuels a thing of the past. Asteroids will be mined for essential minerals. Genetic editing and synthetic biology will prolong life, virtually eliminate disease and provide meat without animals. New horizons beckon. In Fully Automated Luxury Communism, Aaron Bastani conjures a vision of extraordinary hope, showing how we move to energy abundance, feed a world of 9 billion, overcome work, transcend the limits of biology, and establish meaningful freedom for everyone. Rather than a final destination, such a society merely heralds the real beginning of history.

The Frith Prescribing Guidelines for People with Intellectual Disability Sabyasachi Bhaumik 2015-09-11 The Frith Prescribing Guidelines for People with Intellectual Disability provides comprehensive guidance on prescribing for patients with intellectual disability, as well as general information on the clinical care of this important population. The guidelines have been conceived and developed by clinicians working in intellectual disability services. They are based on both the latest evidence and expert opinion to provide a consensus approach to prescribing as part of a holistic package of care, and include numerous case examples and scenarios. New to this edition are improved coverage of children and the role of primary care teams. The Frith Prescribing Guidelines for People with Intellectual Disability, Third Edition, is a practical guide for busy clinicians, as well as a valuable reference for all primary and secondary health care professionals caring for people with intellectual disability.

Corrosion Control for Offshore Structures Ramesh Singh 2014-08-12 A variable game changer for those companies operating in hostile, corrosive marine environments, Corrosion Control for Offshore Structures

provides critical corrosion control tips and techniques that will prolong structural life while saving millions in cost. In this book, Ramesh Singh explains the ABCs of prolonging structural life of platforms and pipelines while reducing cost and decreasing the risk of failure. Corrosion Control for Offshore Structures places major emphasis on the popular use of cathodic protection (CP) combined with high efficiency coating to prevent subsea corrosion. This reference begins with the fundamental science of corrosion and structures and then moves on to cover more advanced topics such as cathodic protection, coating as corrosion prevention using mill applied coatings, field applications, and the advantages and limitations of some common coating systems. In addition, the author provides expert insight on a number of NACE and DNV standards and recommended practices as well as ISO and Standard and Test Methods. Packed with tables, charts and case studies, Corrosion Control for Offshore Structures is a valuable guide to offshore corrosion control both in terms of its theory and application. Prolong the structural life of your offshore platforms and pipelines Understand critical topics such as cathodic protection and coating as corrosion prevention with mill applied coatings Gain expert insight on a number of NACE and DNV standards and recommended practices as well as ISO and Standard Test Methods.

Air Conditioning and Refrigeration Rex Miller 2006-04-20 BE AN AC AND REFRIGERATION ACE- NO MATTER WHAT YOUR PRESENT LEVEL OF SKILL! Air Conditioning and Refrigeration helps you understand today's cooling and climate control systems-so expertly that you can use it as the foundation for a career! Clear instructions-with over 800 photographs and illustrations-offer step-by-step guidance to learning the trade for students, professionals, and homeowners who want to do their own installations or repairs. LEARN WITH THE PROS Written by experienced teachers Rex and Mark R. Miller-whose Carpentry & Construction has been a building classic for more than 25 years-Air Conditioning and Refrigeration has all the task-simplifying details you need for any project. In the popular Miller style, this complete and current guide helps: New and student technicians. Build on-the-job skills and the knowledge needed to succeed in a fast-growing, lucrative field. AC and refrigeration pros. Refine and update skills, with full information on the latest cost-cutting technologies, refrigerants, and tools. Do-it-yourselfers and homeowners. Make expert equipment and tool choices and achieve superior results, economically. Service personnel, technicians, contractors, engineers, and facility managers. Find up-to-date information on codes, standards, safety tips, and methods. Anyone who needs clear, illustrated, step-by-step instructions for efficient, cost-effective, and current methods in choosing, installing, maintaining, troubleshooting, servicing, and repairing today's AC and refrigeration equipment.

The Chemistry of Inkjet Inks

11th Symposium for Fuel Cell and Battery Modelling and Experimental Validation kolektiv autorů 2014-03-05

Wills' Mineral Processing Technology Barry A. Wills 2011-04-18 Wills' Mineral Processing Technology provides practising engineers and students of mineral processing, metallurgy and mining with a review of all of the common ore-processing techniques utilized in modern processing installations. Now in its Seventh Edition, this renowned book is a standard reference for the mineral processing industry. Chapters deal with each of the major processing techniques, and coverage includes the latest technical developments in the processing of increasingly complex refractory ores, new equipment and process routes. This new edition has been prepared by the prestigious J K Minerals Research Centre of Australia, which contributes its world-class expertise and ensures that this will continue to be the book of choice for professionals and students in this field. This latest edition highlights the developments and the challenges facing the mineral processor, particularly with regard to the environmental problems posed in improving the efficiency of the existing processes and also in dealing with the waste created. The work is fully indexed and referenced. · The classic mineral processing text, revised and updated by a prestigious new team · Provides a clear exposition of the principles and practice of mineral processing, with examples taken from practice · Covers the latest technological developments and highlights the challenges facing the mineral processor · New sections on environmental problems, improving the efficiency of existing processes and dealing with waste.

Service-oriented Architecture Guido Schmutz 2010-06-22 Successfully implement your own enterprise integration architecture using the Trivadis Integration Architecture Blueprint with this book and eBook.

Chemical Elements D. N. Trifonov 1989