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Heterogeneous Photocatalysis Using Inorganic Semiconductor Solids - Umar Ibrahim Gaya 2013-11-08
This book underscores the essential principles of photocatalysis and provides an update on its scientific foundations, research advances, and current opinions, and interpretations. It consists of an introduction to the concepts that form the backbone of photocatalysis, from the principles of solid-state chemistry and physics to the role of reactive oxidizing species. Having recognised the organic link with chemical kinetics, part of the book describes kinetic concepts as they apply to photocatalysis. The dependence of rate on the reaction conditions and parameters is detailed, the retrospective and prospective aspects of the mechanism of photocatalysis are highlighted, and the adsorption models, photocatalytic rate expressions, and kinetic disguises are examined. This book also discusses the structure, property, and activity relationship of prototypical semiconductor photocatalysts and reviews how to extend their spectral absorption to the visible region to enable the effective use of visible solar spectrum. Lastly, it presents strategies for deriving substantially improved photoactivity from semiconductor materials to support the latest applications and potential trends.
Thermal Biomass Conversion - A. V. Bridgwater 2009
This title presents the results from ThermalNet, which is the latest thermal biomass conversion network to be carried out on a European basis.
The BetterPhoto Guide to Exposure - Sean Arbabi 2009-01-06
Exposure. It’s essential to producing high-quality photographs, but mastering exposure is difficult. At last there’s a BetterPhoto guide to exposure, packed with BetterPhoto’s signature assignments, diagrams, tips, and illustrations. It’s like a full-scale photography course between the covers of the book–all taught the BetterPhoto way, just like photographers learn at the top photography-instruction site on the web. There’s plenty of information here on both digital and film photography, discussing how different file formats affect exposure, how to adjust digital files, color correction, combining digital exposures, and much more. The author’s stunning full-color photographs make this hardworking guide as inspiring as it is instructive.
Hunter Green - Terri Weifenbach 2000
An original force in contemporary art - recently described as 'the Emily Dickinson of photographs' - Weifenbach creates images based on scenes familiar to any viewer. The book opens with an introduction by Japanese writer Yayako Uchida.
Thermal Conductivity of Metals at High Temperatures - Paul H. Sidles 1951

Ada 95 - Michael B. Feldman 1999
In this third edition, educators Michael Feldman and Elliot Koffman continue to refine and enhance their balanced presentation of modern programming concepts and Ada 95 language capabilities. Students with no prior programming experience will begin to program with this interesting and powerful yet flexible language that is used in the Boeing 777 and Airbus 340, the International Space Station the European high-speed rail system, and many other major projects around the world. This text includes a CD-ROM containing versions of the GNU Ada 95 compiler (GNAT), program development tools, and high-resolution graphics support for the Windows, DOS, Macintosh and Linux operating systems. GNAT supports the full Ada 95 language as standardized by the ISO and the ANSI.
Weegee and Naked City - Anthony W. Lee 2008-04-02
“While Berenice Abbott, Margaret Bourke-White, and Alfred Steiglitz photographed New York's sleek skyscrapers, Arthur Fellig (called Weegee) documented the seamy underside of depression-era New York. In this extraordinary book, Richard Meyer and Anthony Lee tell a gripping tale, filled with historical detail about Weegee's transformation from freelance newspaper photographer to fine artist with the publication of his enormously successful book Naked City, in 1945.”—Cécile Whiting, author of Pop L.A.: Art and the City in the 1960s “Lee and Meyer return Weegee to his 'working world' by exploring the multiple contexts of his production-the Photo League, the tabloids, the exhibition galleries, and the book market. The volume adds an important dimension to our understanding of how Weegee straddled the worlds of popular culture, photojournalism, and left politics."—Miles Orvell, author of American Photography and John Vachon's America: Photographs and Letters from the Depression to World War II (UC Press) “Groundbreaking. Anthony Lee and Richard Meyer delve deeply into a rich archive of media and exhibition history, criticism, and biography to arrive at original interpretations of the most enigmatic photographer in modern visual and print culture.”—Jordana Mendelson, author of Documenting Spain: Artists, Exhibition Culture, and the Modern Nation, 1929-1939
Bretherick's Handbook of Reactive Chemical Hazards - L. Bretherick 2016-10-27
Bretherick's Handbook of Reactive Chemical Hazards, Fourth Edition, has been prepared and revised to give access to a wide and up-to-date selection of documented information to research students, practicing chemists, safety officers, and others concerned with the safe handling and use of reactive chemicals. This will allow ready assessment of the likely potential for reaction hazards which may be associated with an existing or proposed chemical compound or reaction system. A secondary, longer-term purpose is to present the information in a way which will, as far as possible, bring out the causes of, and interrelationships between, apparently disconnected facts and incidents. This handbook includes all information which had become available to the author by April 1989 on the reactivity hazards of individual elements or compounds, either alone or in combination. It begins with an introductory chapter that provides an overview of the complex subject of reactive chemical hazards, drawing attention to the underlying principles and to some practical aspects of minimizing such hazards. This is followed by two sections: Section 1 provides detailed information on the hazardous properties of individual chemicals, either alone or in combination with other compounds; the entries in Section 2 are of two distinct types. The first type of entry gives general information on the hazardous behavior of some recognizably discrete classes or groups of the 4,600 or so individual compounds for which details are given in Section 1. The second type of entry concerns reactive hazard topics, techniques, or incidents which have a common theme or pattern of behavior involving compounds of several different groups, so that no common structural feature exists for the compounds involved.

The Thing - Dylan Trigg 2014-08-29

What is the human body? Both the most familiar and unfamiliar of things, the body is the centre of experience but also the site of a prehistory anterior to any experience. Alien and uncanny, this other side of the body has all too often been overlooked by phenomenology. In confronting this oversight, Dylan Trigg's The Thing redefines phenomenology as a species of realism, which he terms unhuman phenomenology. Far from being the vehicle of a human voice, this unhuman phenomenology gives expression to the alien materiality at the limit of experience. By fusing the philosophies of Merleau-Ponty, Husserl, and Levinas with the horrors of John Carpenter, David Cronenberg, and H.P. Lovecraft, Trigg explores the ways in which an unhuman phenomenology positions the body out of time. At once a challenge to traditional notions of phenomenology, The Thing is also a timely rejoinder to contemporary philosophies of realism. The result is nothing less than a rebirth of phenomenology as redefined through the lens of horror.

The Five O'Clock Apron - Claire Thomson 2015-02-19

Faced with the daily challenge of what to cook for her three young children, chef and mum Claire Thomson made it her mission to inspire parents stuck in a teatime rut. Every day she makes a 'proper' tea, tweeting it at 5pm - from that her blog '5 O'clock Apron' was born and a popular Guardian column on cooking for children followed. Claire wants to inspire other parents and invigorate the concept of family cookery. Cooking shouldn't be a chore, one meal for the grown-ups and another for the children. Claire's fresh, exciting meals are versatile and flavourful enough to please everyone around the table, encouraging parents to view food differently, to refresh their culinary imaginations and find real joy in cooking for their children. Featuring sections on milk, bread, grains, pulses, rice, vegetables, fruit and fish, 5 O'clock Apron will engage and empower parents. Not just a recipe book, but a way of thinking about how to shop, cook, eat and celebrate as a family, Claire provides a unique insight, as both a mother and a chef, into what really makes food appealing for children.

Iona Abbey Worship Book - 2017 edition - Iona Community 2017-02-04

The services and resources in the Iona Abbey Worship Book reflect the Iona Community's commitment to the belief that worship is all that we are and all that we do, both inside and outside the church, with no division into the sacred and the secular. The material draws on many traditions, including the Celtic, and aims to help us to be fully present to God, who is fully present to us - in our neighbour, in the political and social activity of the world around us, and in the very centre and soul of our being. Each year, thousands of visitors make their way to Iona and many are changed by their time on this small Hebridean island which has been a powerful spiritual centre over the centuries. The Iona Community believes that we are brought to Iona not to be changed into 'religious' people, but rather to be made more fully human. Our common life - including our services - is directed to that end.

Methane Conversion - D.M. Bibby 1988-03-01

This proceedings volume comprises the invited plenary lectures, contributed and poster papers presented at a symposium organised to mark the successful inauguration of the world's first commercial plant for production of gasoline from natural gas, based on the Mobil methanol-to-gasoline process. The objectives of the Symposium were to present both fundamental research and engineering aspects of the development and commercialization of gas-to-gasoline processes. These include steam reforming, methanol synthesis and methanol-to-gasoline. Possible alternative processes e.g. MOGD, Fischer-Tropsch synthesis of hydrocarbons, and the direct conversion of methane to higher hydrocarbons were also considered. The papers in this volume provide a valuable and extremely wide-ranging overview of current research into the various options for natural gas conversion, giving a

detailed description of the gas-to-gasoline process and plant. Together, they represent a unique combination of fundamental surface chemistry catalyst characterization, reaction chemistry and engineering scale-up and commercialization.
George Caleb Bingham, 1811-1879 - E. Maurice Bloch 1967

Crohn's Disease - Arumugam Rajesh 2016-08-23
This book will incorporate a multimodality approach toward inflammatory bowel diseases. Up to date imaging methodologies will be described along with their strengths and weaknesses that will help in providing a rational diagnostic strategy for clinical, surgical and support teams working with these patients. Advances in medical and surgical treatment would be detailed and these would be useful to readers and professionals keen to implement these techniques in their own clinical practice.
The Ness of Brodgar - Roy Towers 2017

Chemical Enhanced Oil Recovery - Patrizio Raffa 2019-07-22
This book aims at presenting, describing, and summarizing the latest advances in polymer flooding regarding the chemical synthesis of the EOR agents and the numerical simulation of compositional models in porous media, including a description of the possible applications of nanotechnology acting as a booster of traditional chemical EOR processes. A large part of the world economy depends nowadays on non-renewable energy sources, most of them of fossil origin. Though the search for and the development of newer, greener, and more sustainable sources have been going on for the last decades, humanity is still fossil-fuel dependent. Primary and secondary oil recovery techniques merely produce up to a half of the Original Oil In Place. Enhanced Oil Recovery (EOR) processes are aimed at further increasing this value. Among these, chemical EOR techniques (including polymer flooding) present a great potential in low- and medium-viscosity oilfields. • Describes recent advances in chemical enhanced oil recovery. • Contains detailed description of polymer flooding and nanotechnology as promising boosting tools for EOR. • Includes both experimental and theoretical studies. About the Authors Patrizio Raffa is Assistant Professor at the University of Groningen. He focuses on design and synthesis of new polymeric materials optimized for industrial applications such as EOR, coatings and smart materials. He (co)authored about 40 articles in peer reviewed journals. Pablo Druetta works as lecturer at the University of Groningen (RUG) and as engineering consultant. He received his Ph.D. from RUG in 2018 and has been teaching at a graduate level for 15 years. His research focus lies on computational fluid dynamics (CFD).
Creating the Future of Health - Robert Lampard 2021-02-15
Creating the Future of Health is the fascinating story of the first fifty years of the Cumming School of Medicine at the University of Calgary. Founded at the recommendation of the Royal Commission on Health Services in 1964 the Cumming School has, from the very beginning, focused on innovation and excellence in health education. With a pioneering focus on novel, responsive and systems-based approaches, it was one of the first sites to pilot multi-year training programs in family medicine and remains one of only two three-year medical schools in North America. Since the first class in 1973, over 5000 doctors have graduated from the Cumming School of Medicine. Centres of clinical excellences have been created at four affiliated teaching hospitals and the school now boasts seven medical research institutes at the Foothills/Alberta Children's Campus, the largest medical complex in the province. Drawing on interviews with key players and extensive research into documents and primary material, Creating the Future of Health traces the history of the school through the

leadership of its Deans. This is a story of perseverance through fiscal turbulence, sweeping changes to health care and health care education, and changing ideas of what health services are and what they should do. It is a story of triumph, of innovation, and of the Calgary tenacious spirit that thrives to this day at the Cumming School of Medicine

3D Printing with Biomaterials - A.J.M. van Wijk 2015-01-15

Additive manufacturing or 3D printing, manufacturing a product layer by layer, offers large design freedom and faster product development cycles, as well as low startup cost of production, on-demand production and local production. In principle, any product could be made by additive manufacturing. Even food and living organic cells can be printed. We can create, design and manufacture what we want at the location we want. 3D printing will create a revolution in manufacturing, a real paradigm change. 3D printing holds the promise to manufacture with less waste and energy. We can print metals, ceramics, sand, synthetic materials such as plastics, food or living cells. However, the production of plastics is nowadays based on fossil fuels. And that’s where we witness a paradigm change too. The production of these synthetic materials can be based also on biomaterials with biomass as feedstock. A wealth of new and innovative products are emerging when we combine these two paradigm changes: 3D printing and biomaterials. Moreover, the combination of 3D printing with biomaterials holds the promise to realize a truly sustainable and circular economy.

Eat This Poem - Nicole Gulotta 2017-03-21

A literary cookbook that celebrates food and poetry, two of life's essential ingredients. In the same way that salt seasons ingredients to bring out their flavors, poetry seasons our lives; when celebrated together, our everyday moments and meals are richer and more meaningful. The twenty-five inspiring poems in this book—from such poets as Marge Piercy, Louise Glück, Mark Strand, Mary Oliver, Billy Collins, Jane Hirshfield—are accompanied by seventy-five recipes that bring the richness of words to life in our kitchen, on our plate, and through our palate. Eat This Poem opens us up to fresh ways of accessing poetry and lends new meaning to the foods we cook.

Advanced Catalytic Materials: Current Status and Future Progress - José Manuel Domínguez-Esquivel 2019-10-02

This book presents advances in computational methods, experimental synthesis, and advanced characterizations for novel catalytic materials. The authors show how catalytical materials can be used for various engineering oil & gas applications – mainly in low contaminants fuel production. All contributors, describe in detail novel experimental and theoretical techniques techniques and concepts for synthesis, evaluation and scaling catalytic materials and research advances in evaluation, extensive characterization and theoretical modeling using computer assisted methods and algorithms. Describes computational methods, experimental synthesis and advanced characterization for novel catalytic materials; Examines catalytic materials and corresponding engineering applications with a focus on low contaminant fuel production and derivatives; Covers the application of computer assisted quantum mechanical for fundamental understanding of electronic structure of molecular dimension catalytic materials.

How to Fight Inequality - Ben Phillips 2020-09-29

Inequality is the crisis of our time. The growing gap between a few at the top and the rest of society damages us all. No longer able to deny the crisis, every government in the world is now pledged to fix it – and yet it keeps on getting worse. In this book, international anti-inequality campaigner Ben Phillips shows why winning the debate is not enough: we have to win the fight. Drawing on his insider experience, and his personal exchanges with the real-

life heroes of successful movements, he shows how the battle against inequality has been won before, and he shares a practical plan for defeating inequality again. He sets a route map for us to overcome deference, build our collective power, and create a new story. Most books on inequality are about what other people ought to do about it – this book is about why winning the fight needs you. Tired of feeling helpless in the face of spiralling inequality? Want to know what you can do about it? This is the book for you.

Maintain Your Brain - Michael J. Valenzuela 2011

You CAN take practical steps to avoid dementia - and this book from an Australian expert shows you how. Within twenty years, dementia is set to overtake heart disease as the number one cause of death in Australia. Recent studies show that almost half our adult population already have a family member or friend with the illness. those statistics seem rather grim, but there is GOOD NEWS! We don't need to accept dementia as an inevitable part of ageing. the main forms of dementia affecting people today are not inherited, and there are practical steps you can take right now that will not only help prevent dementia but also improve the overall health of your mind and body. In MAINtAIN YOUR BRAIN, leading Australian expert Dr Michael Valenzuela addresses all the common (and not-so-common) questions people have about dementia, and explains complex cutting-edge medical discoveries in a way that is clear and easy to understand. His practical advice is based on years of first-hand research and experience, and covers everything from blood pressure, diet and cholesterol to mental activity and physical exercise. Featuring plenty of simple tips, summaries and even recipes, this book is essential reading for anyone who wants to enjoy a healthy, active and happy life well into old age.

Recent Insights in Petroleum Science and Engineering - Mansoor Zoveidavianpoor 2018-02-07

This book presents new insights into the development of different aspects of petroleum science and engineering. The book contains 19 chapters divided into two main sections: (i) Exploration and Production and (ii) Environmental Solutions. There are 11 chapters in the first section, and the focus is on the topics related to exploration and production of oil and gas, such as characterization of petroleum source rocks, drilling technology, characterization of reservoir fluids, and enhanced oil recovery. In the second section, the special emphasis is on waste technologies and environmental cleanup in the downstream sector. The book written by numerous prominent scholars clearly shows the necessity of the multidisciplinary approach to sustainable development in the petroleum industry and stresses the most updated topics such as EOR and environmental cleanup of fossil fuel wastes.

My Kitchen in Rome - Rachel Roddy 2016-02-02

When Rachel Roddy visited Rome in 2005 she never intended to stay. But then she happened upon the neighborhood of Testaccio, the wedge-shaped quarter of Rome that centers around the old slaughterhouse and the bustling food market, and fell instantly in love. Thus began an Italian adventure that has turned into a brand new life. My Kitchen in Rome charts a year in Rachel's small Italian kitchen, shopping, cooking, eating, and writing, capturing a uniquely domestic picture of life in this vibrant, charismatic city. Weaving together stories, memories, and recipes for thick bean soups, fresh pastas, braised vegetables, and slow-cooked meats, My Kitchen in Rome captures the spirit of Rachel's beloved blog, Rachel Eats, and offers readers the chance to cook "cucina romana" without leaving the comfort of home.

Thermal Analysis - T. Hatakeyama 1999-05-04

Thermal Analysis Fundamentals and Applications to Polymer Science T. Hatakeyama Otsuma Women's University, Tokyo, Japan F. X. Quinn L'Oréal Recherche Advancée, Aulnay-sous-Bois, France The first edition of this classic book remains one of the very few introductory

books covering both theoretical and practical aspects of thermal analysis (TA). This new edition includes a much enlarged section on MDSC, in which the instrument is described and a critical appraisal of the technique presented. Other additions include new sections on rate-controlled TGA, OTTER, and Specific Heat Spectroscopy, and a thoroughly updated section on X-Ray DSC. This very practical book is a must for people who use thermal analysis techniques in their everyday work. "An excellent introductory text" - Review of 1st Edition.

Decolonising Blue Spaces in the Anthropocene - Meg Parsons 2021

This open access book crosses disciplinary boundaries to connect theories of environmental justice with Indigenous people's experiences of freshwater management and governance. It traces the history of one freshwater crisis - the degradation of Aotearoa New Zealand's Waipā River- to the settler-colonial acts of ecological dispossession resulting in intergenerational injustices for Indigenous Māori iwi (tribes). The authors draw on a rich empirical base to document the negative consequences of imposing Western knowledge, worldviews, laws, governance and management approaches onto Māori and their ancestral landscapes and waterscapes. Importantly, this book demonstrates how degraded freshwater systems can and are being addressed by Māori seeking to reassert their knowledge, authority, and practices of kaitiakitanga (environmental guardianship). Co-governance and co-management agreements between iwi and the New Zealand Government, over the Waipā River, highlight how Māori are envisioning and enacting more sustainable freshwater management and governance, thus seeking to achieve Indigenous environmental justice (IEJ). The book provides an accessible way for readers coming from a diversity of different backgrounds, be they academics, students, practitioners or decision-makers, to develop an understanding of IEJ and its applicability to freshwater management and governance in the context of changing socio-economic, political, and environmental conditions that characterise the Anthropocene. Meg Parsons is senior lecturer at the University of Auckland, New Zealand who specialises in historical geography and Indigenous peoples' experiences of environmental changes. Of Indigenous and non-Indigenous heritage (Ngāpuhi, Pākehā, Lebanese), Parsons is a contributing author to IPCC's Sixth Assessment of Working Group II report and the author of 34 publications. Karen Fisher (Ngāti Maniapoto, Waikato-Tainui, Pākehā) is an associate professor in the School Environment, University of Auckland, New Zealand. Aotearoa New Zealand. She is a human geographer with research interests in environmental governance and the politics of resource use in freshwater and marine environments. Roa Petra Crease (Ngāti Maniapoto, Filipino, Pākehā) is an early career researcher who employs theorising from feminist political ecology to examine climate change adaptation for Indigenous and marginalised peoples. Recent publications explore the intersections of gender justice and climate justice in the Philippines, and mātuaranga Māori (knowledge) of flooding.--

The Man with the Iron Heart - Harry Turtledove 2009-07-28

What if V-E Day hadn’t ended World War II in Europe? What if, instead, the Allies had to face a potent, even fanatical, postwar Nazi resistance? Such a movement, based in the fabled Alpine Redoubt, was in fact a real threat, ultimately neutralized by Germany’s flagging resources and squabbling officials. But had SS Obergruppenführer Reinhard Heydrich, the notorious Man with the Iron Heart, not been assassinated in 1942, fate might have taken a different turn. In this imagined world, Nazi forces launch a guerrilla war, using the quick and dirty tactics of terrorism to overturn what seemed to be a decisive victory. Suddenly the Allies–especially the United States–are mired in a long, seemingly unwinnable conflict while battling an invisible, unrelenting enemy.

Revolutionizing Aircraft Materials and Processes - Spiros Pantelakis 2020-03-11

This book addresses the emerging needs of the aerospace industry by discussing recent

developments and future trends of aeronautic materials. It is aimed at advancing existing materials and fostering the ability to develop novel materials with less weight, increased mechanical properties, more functionality, diverse manufacturing methods, and recyclability. The development of novel materials and multifunctional materials has helped to increase efficiency and safety, reduce costs, and decrease the environmental foot print of the aeronautical industry. In this book, integral metallic structures designed by disruptive concepts, including topology optimization and additive manufacturing, are highlighted.

Radio Navigational Aids - 2002

Virtual Serial Port Cookbook - Joe Pardue 2007

This is a cookbook for communicating between a PC and a Microcontroller using the FTDI FT232R USB UART IC, and has lots of software and hardware examples. The code is in C# and Visual Basic Express allowing you to build Graphical User Interfaces and add Serial Port functions to create communications programs. Part 1 - Serial Port via USB Made Almost Easy -- In the first section you will learn the basics of serial communications using a USB UART bridge. You will further learn to write a simple terminal program in C# and Visual Basic Express .NET. Part 2 - PC to Microcontroller Conversations -- In the second section you will build on what you have learned and get into more details about GUI programming, using the SerialPort class, and some useful software tools such as XML. You will bring it all together by building a Developer Terminal, which will have most of the bells and whistles that you would want for communicating between a PC and a microcontroller. You will end this section with some neat hardware experiments. Part 3 - The FTDI FT232R -- In the final section you will chuck the serial port paradigm and communicate directly with the FT232R. You will learn how to use the Smiley Micros port of the FTDI D2XX driver, you will do some more hardware experiments bit-banging the BBUSB pins, and finally you will build a software programmer for the FT232R.

The Gunnery Officer - United States. Bureau of Naval Personnel 1956

Legends - Harve Saal 1990

Green Photocatalytic Semiconductors - Seema Garg 2021-09-20

This book comprises a detailed overview on the role of photocatalysts for environmental remediation, hydrogen production and carbon dioxide reduction. Effective ways to enhance the photocatalytic activity of the material via doping, hybrid material, laser light and nanocomposites have been discussed in this book. The book also further elaborates the role of metal nanoparticles, rare earth doping, sensitizers, surface oxygen vacancy, interface engineering and band gap engineering for enhancing the photocatalytic activity. An approach to recover the photocatalytic material via immobilization is also presented. This book brings to light much of the recent research in the development of such semiconductor photocatalytic systems. The book will thus be of relevance to researchers in the field of: material science, environmental science & technology, photocatalytic applications, newer methods of energy generation & conversion and industrial applications.

Wax Deposition - Zhenyu Huang 2016-03-09

Wax Deposition: Experimental Characterizations, Theoretical Modeling, and Field Practices covers the entire spectrum of knowledge on wax deposition. The book delivers a detailed description of the thermodynamic and transport theories for wax deposition modeling as well as a comprehensive review of laboratory testing for the establishment of appropriate field control strategies. Offering valuable insight from academic research and the flow assurance

industry, this balanced text: Discusses the background of wax deposition, including the cause of the phenomenon, the magnitude of the problem, and its impact on petroleum production Introduces laboratory techniques and theoretical models to measure and predict key parameters of wax precipitation, such as the wax appearance temperature and the wax precipitation curve Explains how to conduct and interpret laboratory experiments to benchmark different wax deposition models, to better understand wax deposition behaviors, and to predict wax deposit growth for the field Presents various models for wax deposition, analyzing the advantages and disadvantages of each and evaluating the differences between the assumptions used Provides numerous examples of how field management strategies for wax deposition can be established based on laboratory testing and modeling work Wax Deposition: Experimental Characterizations, Theoretical Modeling, and Field aids flow assurance engineers in identifying the severity and controlling the problem of wax deposition. The book also shows students and researchers how fundamental principles of thermodynamics, heat, and mass transfer can be applied to solve a problem common to the petroleum industry.

Supramolecules in Drug Discovery and Drug Delivery - Thomas Mavromoustakos 2020-10-29

This detailed book aims to provide readers with critical information to accomplish the synthesis of nanosystems for the purpose of supramolecular entities complexing with drugs, targeted drug delivery system characterization, as well as the study of the physical-chemical interactions that govern the stability and properties of these systems. Beginning with a collection of chapters on drug delivery platforms such as cyclodextrins, micelles, liposomes, polymeric, nanotubes, and more, the volume continues with coverage of the study of nanotechnology systems using different biophysical techniques such as DSC, ITC, solid and liquid NMR spectroscopy, and electrochemistry. Written for the highly successful Methods in Molecular Biology series, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Authoritative and practical, Supramolecules in Drug Discovery and Drug Delivery: Methods and Protocols serves as an ideal guide for researchers working toward drug delivery mechanisms that can tailor their physical chemical properties and enhance their efficacy, while retaining their structures intact.

XAFS Techniques for Catalysts, Nanomaterials, and Surfaces - Yasuhiro Iwasawa 2016-10-19

This book is a comprehensive, theoretical, practical, and thorough guide to XAFS spectroscopy. The book addresses XAFS fundamentals such as experiments, theory and data analysis, advanced XAFS methods such as operando XAFS, time-resolved XAFS, spatially resolved XAFS, total-reflection XAFS, high energy resolution XAFS, and practical applications to a variety of catalysts, nanomaterials and surfaces. This book is accessible to a broad audience in academia and industry, and will be a useful guide for researchers entering the subject and graduate students in a wide variety of disciplines.

Fortran Programs for Chemical Process Design, Analysis, and Simulation - A. Kayode Coker 1995-01-25

Numerical Computation. Physical Property Data. Fluid Flow. Equipment Sizing. Instrument Sizing. Compressors and Pump Hydraulics. Mass Transfer. Heat Transfer. Engineering Economics. Imperial/SI Units Conversion Table. Appendix A: Tables. Appendix B: Source Code Printouts.

The Diminished - Kaitlyn Sage Patterson 2018-04-10

In the Alskad Empire, nearly all are born with a twin, two halves to form one whole... yet some face the world alone. The singleborn.

Classics for Piano Duet, Book 1 - George Peter Tingley

These duet arrangements offer late elementary to early intermediate pianists the opportunity to play the classics at a much earlier level than if they were to wait to play the original version. By dividing the pieces between two performers, the individual parts are simpler, but the fullness and integrity of the originals remain. Highlights from Book 1 are Joplin's Maple Leaf Rag and Rubinstein's Melody in F.

Nice Fish - Mark Rylance 2016

On a frozen Minnesota lake, the ice is beginning to creak and groan. It's the end of the fishing season, and two old friends are out on the ice, angling for something big; something down there that is pure need. Something that might just swallow them whole. In Nice Fish, celebrated actor Mark Rylance draws on his own teenage years in the American Midwest, in a unique collaboration with critically acclaimed Minnesotan contemporary prose poet Louis Jenkins and the whole company. This sublimely playful, profound and very funny play transferred direct from a sell-out run in New York to the Harold Pinter Theatre, London, in 2016, in a production directed by Claire van Kampen and starring Rylance and Jim Lichtscheidl.