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Armies Without States - Robert Mandel 2002

The book concludes with an assessment of the complexities surrounding responses to security privatization - and an exploration of when, and whether, it should be promoted rather than prevented."--BOOK JACKET.

Implementation Research in Health - David H. Peters 2013

Interest in implementation research is growing, largely in recognition of the contribution it can make to maximizing the beneficial impact of health interventions. As a relatively new and, until recently, rather neglected field within the health sector, implementation research is something of an unknown quantity for many. There is therefore a need for greater clarity about what exactly implementation research is, and what it can offer. This Guide is designed to provide that clarity. Intended to support those conducting implementation research, those with responsibility for implementing programs, and those who have an interest in both, the Guide provides an introduction to basic implementation research concepts and language, briefly outlines what it involves, and describes the many opportunities that it presents. The main aim of the Guide is to boost implementation research capacity as well as demand for implementation research that is aligned with need, and that is of particular relevance to health systems in low- and middle-income countries (LMICs).

Research on implementation requires the engagement of diverse stakeholders and multiple disciplines in order to address the complex implementation challenges they face. For this reason, the Guide is intended for a variety of actors who contribute to and/or are impacted by implementation research. This includes the decision-makers responsible for designing policies and managing programs whose decisions shape implementation and scale-up processes, as well as the practitioners and front-line workers who ultimately implement these decisions along with researchers from different disciplines who bring expertise in systematically collecting and analyzing information to inform implementation questions. The opening chapters (1-4) make the case for why implementation research is important to decision-making. They offer a workable definition of implementation research and illustrate the relevance of research to problems that are often considered to be simply administrative and provide examples of how such problems can be framed as implementation research questions. The early chapters also deal with the conduct of implementation research, emphasizing the

importance of collaboration and discussing the role of implementers in the planning and designing of studies, the collection and analysis of data, as well as in the dissemination and use of results. The second half of the Guide (5-7) detail the various methods and study designs that can be used to carry out implementation research, and, using examples, illustrates the application of quantitative, qualitative, and mixed-method designs to answer complex questions related to implementation and scale-up. It offers guidance on conceptualizing an implementation research study from the identification of the problem, development of research questions, identification of implementation outcomes and variables, as well as the selection of the study design and methods while also addressing important questions of rigor.

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.

Women in Lebanon - M. Thomas 2012-12-28

Combining insider and outsider perspectives, *Women in Lebanon* looks at Christian and Muslim women living together in a multicultural society and facing modernity. While the Arab Spring has begun to draw attention to issues of change, modernity, and women's subjectivity, this manuscript takes a unique approach to examining and describing the Lebanese "alternative modernities" thesis and how it has shaped thinking about the meaning of terms like evolution, progress, development, history, and politics in contemporary Arab thought. The author draws on extensive ethnographic research, as well as her own personal experience.

The Summer I Met Jack - Michelle Gable 2018-05-29

"Based on the real-life story of Alicia Corning Clark"--Jacket.

Nano-Engineered Cementitious Composites - Baoguo Han 2019-04-10

This book focuses on civil engineering materials and nanotechnology.

Highlighting recent advances in the field of nano-engineered cementitious composites, it discusses their key principles, design and fabrication, testing and characterization, performance and mechanisms, as well as applications. Future developments and remaining challenges are also outlined. Nano-engineered cementitious composites are exceptionally strong, durable and offer multifunctional/smart performance that differs considerably from that of normal cementitious composites. Providing valuable insights into these composites' future development, the book offers an essential source of information, inspiration, theory and practical guidance for developing sustainable cementitious composites. As such, it will benefit researchers, scientists and engineers in the fields of civil engineering materials and nanotechnology alike.

Concurrent Programming in Ada - Alan Burns 1985

The concept of concurrency presents a real difficulty to many programmers. In this book Dr Burns introduces the topic and shows how the Ada programming language, which had as a main design specification that it should contain the features necessary for concurrent programming, deals with it. The need to produce software that models inherent parallelism is important in many applications, including embedded real time systems, process control and general purpose multi-processor system software. Although for many other applications of Ada, knowledge of the Tasking Model is not necessary the full power of the language can only really be obtained if this model is understood.

See You Again in Pyongyang - Travis Jeppesen 2019-05-28

A "close-up look at the cloistered country" (USA Today), *See You Again in Pyongyang* is American writer Travis Jeppesen's "probing" and "artful" (New York Times Book Review) chronicle of his travels in North Korea--an eye-opening portrait that goes behind the headlines about Trump and Kim, revealing North Koreans' "entrepreneurial spirit, and hidden love of foreign media, as well as their dreams and fears" (Los Angeles Times). In *See You Again in Pyongyang*, Travis Jeppesen culls from his experiences traveling and studying in North Korea to create a multifaceted portrait of the country and its idiosyncratic capital city. Jeppesen challenges the notion that Pyongyang is merely a "showcase capital" where everything is staged for the benefit of foreigners, as well as the idea that Pyongyangites are brainwashed robots. Jeppesen introduces readers to an array of fascinating North Koreans, from government ministers with a side hustle in black market Western products to young people enamored with American pop culture. Revealing a complex society, rife with contradictions, *See You Again in Pyongyang* is an essential addition to the literature about one of the world's most fascinating places.

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.

Spectrophotometric Determination of Elements - Zygmunt Marczenko 1976

Pie Academy - Ken Haedrich 2020-10-27

"An excellent resource for home bakers looking to up their pie game." – Publishers Weekly, starred review "The wide-ranging, well-curated mix of classic and contemporary recipes and expert advice make this an essential primer for avid home bakers." – Library Journal, starred review "Readers will find everything they'd ever want to know about making pie, and even the dough-fearful will feel ready to measure, roll, and cut." – Booklist, starred review "Fear of pie? Ken Haedrich to the rescue. Pie Academy takes you through everything pie related – perfect crusts, fillings, crimping techniques, blind baking, lattice toppings and more." – Kathy Gunst, coauthor of *Rage Baking* and resident chef for NPR's *Here and Now* "A true baker's delight." – Amy Traverso, *Yankee* magazine food editor and author of *The Apple Lover's Cookbook* Trusted cookbook author and pie expert Ken Haedrich delivers the only pie cookbook

you'll ever need: Pie Academy. Novice and experienced bakers will discover the secrets to baking a pie from scratch, with recipes, crust savvy, tips and tutorials, advice about tools and ingredients, and more. Foolproof step-by-step photos give you the confidence you need to choose and prepare the best crust for different types of fillings. Learn how to make pie dough using butter, lard, or both; how to work with all-purpose, whole-wheat, or gluten-free flour; how to roll out dough; which pie pan to use; and how to add flawless finishing details like fluting and lattice tops. Next are 255 recipes for every kind and style of pie, from classic apple pie and pumpkin pie to summer berry, fruit, nut, custard, chiffon, and cream pies, freezer pies, slab pies, hand pies, turnovers, and much more. This beast of a collection, with gorgeous color photos throughout, weighs in at nearly four pounds and serves up forty years of pie wisdom in a single, satisfying package.

Biocomposite Materials - Mohamed Thariq Hameed Sultan 2021-01-25

The book highlights the recent research developments in biocomposite design, mechanical performance and utility. It discusses innovative experimental approaches along with mechanical designs and manufacturing aspects of various fibrous polymer matrix composites and presents examples of the synthesis and development of biocomposites and their applications. It is useful for researchers developing biocomposite materials for biomedical and environmental applications.

Focus on Suzuki® Piano - Mary Craig Powell

A book that is a must for all Suzuki piano students and teachers. Selected and compiled from her articles in Suzuki World over six years. Mrs. Powell discusses: communication with parents, home practice, listening, imitative games, psychology, "Fred," developing technique, reading, using the metronome, transposition, dynamics, balance, phrasing, Baroque style, Classical style, and effective teaching. A book rich with ideas for better teaching and better learning. Highly recommended.

Deep Learning: Concepts and Architectures - Witold Pedrycz 2019-10-29

This book introduces readers to the fundamental concepts of deep learning and offers practical insights into how this learning paradigm supports automatic mechanisms of structural knowledge representation. It discusses a number of multilayer architectures giving rise to tangible and functionally meaningful pieces of knowledge, and shows how the structural developments have become essential to the successful delivery of competitive practical solutions to real-world problems. The book also demonstrates how the architectural developments, which arise in the setting of deep learning, support detailed learning and refinements to the system design. Featuring detailed descriptions of the current trends in the design and analysis of deep learning topologies, the book offers practical guidelines and presents competitive solutions to various areas of language modeling, graph representation, and forecasting.

Multivariate Statistics: - Wolfgang Härdle 2007-07-27

The authors have cleverly used exercises and their solutions to explore the concepts of multivariate data analysis. Broken down into three sections, this book has been structured to allow students in economics and finance to work their way through a well formulated exploration of this core topic. The first part of this book is devoted to graphical techniques. The second deals with

multivariate random variables and presents the derivation of estimators and tests for various practical situations. The final section contains a wide variety of exercises in applied multivariate data analysis.

Sustainable Polymer Composites and Nanocomposites - Inamuddin 2019-02-01

This book presents emerging economical and environmentally friendly polymer composites that are free of the side effects observed in traditional composites. It focuses on eco-friendly composite materials using granulated cork, a by-product of the cork industry; cellulose pulp from the recycling of paper residues; hemp fibers; and a range of other environmentally friendly materials procured from various sources. The book presents the manufacturing methods, properties and characterization techniques of these eco-friendly composites. The respective chapters address classical and recent aspects of eco-friendly polymer composites and their chemistry, along with practical applications in the biomedical, pharmaceutical, automotive and other sectors. Topics addressed include the fundamentals, processing, properties, practicality, drawbacks and advantages of eco-friendly polymer composites. Featuring contributions by experts in the field with a variety of backgrounds and specialties, the book will appeal to researchers and students in the fields of materials science and environmental science. Moreover, it fills the gap between research work in the laboratory and practical applications in related industries.

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.

Suzuki organ school - Shinichi Suzuki 2006

This series is the first classical organ method for children and is part of the

worldwide Suzuki Method of teaching. An important companion recording of model performances of the pieces in Volumes 1 and 2 is also available (#37620). 32 pages. Contents: A Little Fairytale * Allegretto * Amaryllis * Chant Arabe * Cuckoo * Go Tell Aunt Rhody * Gossip Tune * Herdsmans Song * Hippopotamus * Hot Dog * Lightly Row * Little Playmates * Little Snail * London Bridge * Lullaby * Mary Had a Little Lamb * My School Day * Paris * Piglet * Song of the Wind * Spain * The Fly * The Musical Box * Twinkle, Twinkle, Little Star Theme and Variations

Handbook of Nanocellulose and Cellulose Nanocomposites, 2 Volume Set - Hanieh Kargarzadeh 2017-06-19

An up-to-date and comprehensive overview summarizing recent achievements, the state of the art, and trends in research into nanocellulose and cellulose nanocomposites. Following an introduction, this ready references discusses the characterization as well surface modification of cellulose nanocomposites before going into details of the manufacturing and the self-assembly of such compounds. After a description of various alternatives, including thermoplastic, thermosetting, rubber, and fully green cellulose nanocomposites, the book continues with their mechanic and thermal properties, as well as crystallization and rheology behavior. A summary of spectroscopic and water sorption properties precedes a look at environmental health and safety of these nanocomposites. With its coverage of a wide variety of materials, important characterization tools and resulting applications, this is an essential reference for beginners as well as experienced researchers.

Congressional Edition - United States Congress 2015-09-11

Mössbauer Spectroscopy of Sophisticated Oxides - Attila Vértes 1997

"The importance of oxides in the field of material science has shown a spectacular increase in the last two decades. Some classes of these oxides - such as inorganic glasses, magnetic oxides, high-T_c superconductors and alkali metal ferrates - attract even more attention due to their real or potential technical importance. This monograph is an overview of some unique results achieved by means of Mossbauer spectroscopy of these oxides which the authors call the "sophisticated oxides".--BOOK JACKET.Title Summary field provided by Blackwell North America, Inc. All Rights Reserved

Redemption - Joseph Rosenbloom 2018-03-27

An "immersive, humanizing, and demystifying" look at the final hours of Martin Luther King, Jr.'s life as he seeks to revive the non-violent civil rights movement and push to end poverty in America (Charles Blow, New York Times). "King comes to life in death—a courage ever so inspiring." —Ibram X. Kendi, author of *Stamped from the Beginning* At 10:33 a.m. on April 3, 1968, Dr. Martin Luther King, Jr., landed in Memphis on a flight from Atlanta. A march that he had led in Memphis six days earlier to support striking garbage workers had turned into a riot, and King was returning to prove that he could lead a violence-free protest. King's reputation as a credible, non-violent leader of the civil rights movement was in jeopardy just as he was launching the Poor Peoples Campaign. He was calling for massive civil disobedience in the nation's capital to pressure lawmakers to enact sweeping anti-poverty legislation. But King didn't live long enough to lead the protest. He was fatally shot at 6:01

p.m. on April 4 in Memphis. Redemption is an intimate look at the last thirty-one hours and twenty-eight minutes of King's life. King was exhausted from a brutal speaking schedule. He was being denounced in the press and by political leaders as an agent of violence. He was facing dissent even within the civil rights movement and among his own staff at the Southern Christian Leadership Conference. In Memphis, a federal court injunction was barring him from marching. As threats against King mounted, he feared an imminent, violent death. The risks were enormous, the pressure intense. On the stormy night of April 3, King gathered the strength to speak at a rally on behalf of sanitation workers. The "Mountaintop Speech," an eloquent and passionate appeal for workers' rights and economic justice, exhibited his oratorical mastery at its finest. Redemption draws on dozens of interviews by the author with people who were immersed in the Memphis events, features recently released documents from Atlanta archives, and includes compelling photos. The fresh material reveals untold facets of the story including a never-before-reported lapse by the Memphis Police Department to provide security for King. It unveils financial and logistical dilemmas, and recounts the emotional and marital pressures that were bedeviling King. Also revealed is what his assassin, James Earl Ray, was doing in Memphis during the same time and how a series of extraordinary breaks enabled Ray to construct a sniper's nest and shoot King.

Advancing the Science of Implementation Across the Cancer Continuum - David A. Chambers 2018

While many effective interventions have been developed with the potential to significantly reduce morbidity and mortality from cancer, they are of no benefit to the health of populations if they cannot be delivered. In response to this challenge, Advancing the Science of Implementation across the Cancer Continuum provides an overview of research that can improve the delivery of evidence-based interventions in cancer prevention, early detection, treatment, and survivorship. Chapters explore the field of implementation science and its application to practice, a broad synthesis of relevant research and case studies illustrating each cancer-focused topic area, and emerging issues at the intersection of research and practice in cancer. Both comprehensive and accessible, this book is an ideal resource for researchers, clinical and public health practitioners, medical and public health students, and health policymakers.

James Ravilious - Robin Ravilious 2020-01-20

Biography of one of the great British photographers of the twentieth century.

Clever Girl Finance - Bola Sokunbi 2019-06-25

Take charge of your finances and achieve financial independence – the Clever Girl way Join the ranks of thousands of smart and savvy women who have turned to money expert and author Bola Sokunbi for guidance on ditching debt, saving money, and building real wealth. Sokunbi, the force behind the hugely popular Clever Girl Finance website, draws on her personal money mistakes and financial redemption to educate and empower a new generation of women on their journey to financial freedom. Lighthearted and accessible, Clever Girl Finance encourages women to talk about money and financial wellness and shows them how to navigate their own murky financial waters and come out afloat on the other side. Monitor your expenses, build a budget, and stick with it Make the most of a modest

salary and still have money to spare Keep your credit in check and clean up credit card chaos Start and succeed at your side hustle Build a nest egg and invest in your future Transform your money mindset and be accountable for your financial well-being Feel the power of real-world stories from other "clever girls" Put yourself on the path to financial success with the valuable lessons learned from Clever Girl Finance.

United Nations Conference on Food and Agriculture - United States. Congress. House. Committee on Agriculture 1943

One Thousand Things - Anna Kovecses 2015-09-03

Find out what one thousand really looks like in this visual encyclopedia of first words to see and say. Search-and-find Little Mouse on every page and discover new words with every turn of the page. Stylishly laid out, the book is arranged by theme and features fully illustrated collections of "things", each clearly labeled and easy to recognize. This value-packed 80 page book covers everything from space, to the human body, to the world around us, bringing contemporary appeal to a classic subject.

Trans Fats Replacement Solutions - Dharma R. Kodali 2014-04-22

Epidemiological studies have continued to increase awareness of how trans fats impact human nutrition and health. Because of the adverse effects, trans fats labeling regulations were introduced in 2006. Since then, the fats and oils industry and food product manufacturers have researched and implemented a number of novel, practical, and cost-effective solutions for replacing trans fats with alternate products. This book provides a comprehensive understanding of the trans fats chemistry, labeling regulations, and trans fat replacement technologies. It also deals with world-wide trends and scenarios in terms of regulations and trans fat replacement solutions. Includes details on how trans fats became a part of our food chain, why they remain a health issue, and what replacement solutions exist Offers in-depth analysis of the structure, properties, and functionality of fats and oils Describes trans fats regulations and scenarios in different geographies around the world

Crystallization and Solidification Properties of Lipids - Neil Widlak 2001

Annotation The crystallization and solidification properties of lipids influence their functional properties in biological systems, foods, personal care products, pharmaceuticals, and oleo chemicals. To help its members and others optimize products or systems containing lipids, the American Oil Chemists Society devoted its 2000 conference, held in Toronto, to the fundamental principles of lipid crystallization. The resulting 20 papers discuss phase behavior and polymorphism, lipid crystallization kinetics, microstructure and rheology, and crystallization in emulsions. They also consider applications to dairy systems, manufacturing chocolate confection, and the texture of fats. Annotation c. Book News, Inc., Portland, OR (booknews.com).

Vascular Malformations of the Central Nervous System - Jafar J. Jafar 1999

Technological advances have made vascular malformations a dynamic subject. Written by experts in the field, this text features a discussion of diagnosis and treatment strategies currently available. Included is an in-depth review of the biology and pathology, natural history, clinical syndromes, and diagnosis

and management, including surgical, radiosurgical and endovascular treatments of vascular malformations.

Reeds Nautical Almanac 2020 - Perrin Towler 2019-08-29

Reeds Nautical Almanac is the indispensable trusted annual compendium of navigational data for yachtsmen and motorboaters, and provides all the information required to navigate Atlantic coastal waters around the whole of the UK, Ireland, Channel Islands and the entire European coastline from the tip of Denmark right down to Gibraltar, Northern Morocco, the Azores and Madeira. The 2020 edition continues the Almanac's tradition of year on year improvement and meticulous presentation of all the data required for safe navigation. Now with an improved layout for easier reference and with over 45,000 annual changes, it is regarded as the bible of almanacs for anyone going to sea. The 2020 edition is updated throughout, containing over 45,000 changes, and includes: 700 harbour chartlets; tide tables and tidal streams; buoyage and lights; 7,500 waypoints; invaluable passage notes; distance tables; radio, weather and safety information; first aid section. Also: a free Marina Guide. Also available: free supplements of up-to-date navigation changes from January to June at: www.reedsnauticalalmanac.co.uk

Structure and Properties of Fat Crystal Networks - Alejandro G. Marangoni
2012-09-25

Lipid science and technology has grown exponentially since the turn of the millennium. The replacement of unhealthy fats in the foods we eat, and of petroleum-based ingredients in the cosmetics we use, is a top priority for consumers, government, and industry alike. Particularly for the food industry, removing trans fats and reducing saturated fat

United States Destroyer Operations in World War II - 1977

Cavernous Malformations of the Brain and Spinal Cord - Giuseppe Lanzino
2011-01-01

Current techniques for clinical management This book presents a comprehensive overview of the basic science and current clinical knowledge on cavernous malformations of the brain and spinal cord. Cavernous Malformations of the Brain and Spinal Cord begins by covering general aspects of the disease, including the natural history, molecular biology, pathological processes, genetic basis, neuroradiology, and classification of cavernous malformations. Separate chapters then address the various types of cavernous malformations, thoroughly describing the clinical presentation and management approaches for each clinical situation. Incisive review of recent literature sheds light on topics of incidence, location, and outcomes. Features: Clinical insights regarding indications for surgery, surgical techniques, outcomes, and prognostic factors drawn from the authors' extensive experiences Discussion of treatment of patients with specific disorders, such as epilepsy Coverage of cavernous malformations as dynamic lesions with descriptions of de novo formation and lesions induced by irradiation Neurosurgeons, neurologists, and neuroradiologists, especially those caring for patients with seizures and hemorrhagic stroke, will benefit from the wealth of information in this complete reference.

Operation of Trains and Station Work - Frederick John Prior 1907

Emerging Concepts in Analysis and Applications of Hydrogels - Sutapa Biswas
Majee 2016-08-24

This book is an Up-to-date and authoritative account on physicochemical principles, pharmaceutical and biomedical applications of hydrogels. It consists of eight contributions from different authors highlighting properties and synthesis of hydrogels, their characterization by various instrumental methods of analysis, comprehensive review on stimuli-responsive hydrogels and their diverse applications, and a special section on self-healing hydrogels. Thus, this book will equip academia and industry with adequate basic and applied principles related to hydrogels.

Omphaloplasty - William L. Murillo 2018-11-02

This book offers an essential guide to surgical approaches to the umbilicus. The navel is the only natural scar in the body, accepted for all human beings all over the world. Its absence or distortions can have negative psychological impacts, as it normally lends beauty and harmony to the otherwise unattractive abdomen. The aesthetic importance of the navel justifies the increasing amount of individuals undergoing abdominoplasty and omphaloplasty. However, these surgeries may lead to a series of complications or unintended aesthetic outcomes. Indeed, the postsurgical final aspect of the umbilicus is the main stigma and primary source of problems and complaints following abdominoplasty. In this book readers will find a complete surgical guide to the most important surgical approaches and strategies related to the navel, helping them to deliver a high standard of quality and patient-tailored surgical and aesthetic outcomes. Written by a renowned plastic surgeons with more than 20 years of experience, *Omphaloplasty - A Surgical Guide of the Umbilicus* offers readers an overview of general and innovative surgical techniques for the umbilicus, helping them to make the best choice when performing abdominoplasties.

Radio Navigational Aids - 2002

A Practical Guide to Microstructural Analysis of Cementitious Materials - Karen Scrivener 2018-10-09

A Practical Guide from Top-Level Industry Scientists As advanced teaching and training in the development of cementitious materials increase, the need has emerged for an up-to-date practical guide to the field suitable for graduate students and junior and general practitioners. Get the Best Use of Different Techniques and Interpretations of the Results This edited volume provides the cement science community with a state-of-the-art overview of analytical techniques used in cement chemistry to study the hydration and microstructure of cements. Each chapter focuses on a specific technique, not only describing the basic principles behind the technique, but also providing essential, practical details on its application to the study of cement hydration. Each chapter sets out present best practice, and draws attention to the limitations and potential experimental pitfalls of the technique. Databases that supply examples and that support the analysis and interpretation of the experimental results strengthen a very valuable ready reference. Utilizing the day-to-day experience of practical experts in the field, this book: Covers sample

preparation issues Discusses commonly used techniques for identifying and quantifying the phases making up cementitious materials (X-ray diffraction and thermogravimetric analysis) Presents good practice on calorimetry and chemical shrinkage methods for studying cement hydration kinetics Examines two different applications of nuclear magnetic resonance (solid state NMR and proton relaxometry) Takes a look at electron microscopy, the preeminent microstructural characterization technique for cementitious materials Explains how to use and interpret mercury intrusion porosimetry Details techniques for powder characterization of cementitious materials Outlines the practical application of phase diagrams for hydrated cements Avoid common pitfalls by using A Practical Guide to Microstructural Analysis of Cementitious Materials. A one-of-a-kind reference providing the do's and don'ts of cement chemistry, the book presents the latest research and development of characterisation techniques for cementitious materials, and serves as an invaluable resource for practicing professionals specializing in cement and concrete materials and other areas of cement and concrete technology.