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101 Projects for Your Porsche Boxster Wayne Dempsey . 2011-01-08 Since its introduction in 1997, the Porsche Boxster has earned a reputation as one of the world's greatest sports cars, as well as a huge, loyal following of devoted drivers. This book is aimed at those owners of Boxsters who want to improve their machines while avoiding thousands of dollars in mechanic's costs. Clearly and simply written, with straightforward illustrations, this manual offers 101 projects to help you modify, maintain, and enhance your Porsche. Focusing on the 986 and 987 Boxster models, 101 Projects for Your Porsche Boxster presents all the necessary information, associated costs, and pitfalls to avoid when performing a wide array of projects. In a word, it makes owning a Porsche Boxster an unqualified thrill.

Lightweight Electric/Hybrid Vehicle Design John Fenton 2001 Lightweight Electric/Hybrid Vehicle Design, covers the particular automotive design approach required for hybrid/electrical drive vehicles. There is currently huge investment world-wide in electric vehicle propulsion, driven by concern for pollution control and depleting oil resources. The radically different design demands of these new vehicles requires a completely new approach that is covered comprehensively in this book. The book explores the rather dramatic departures in structural configuration necessary for purpose-designed electric vehicle including weight removal in the mechanical systems. It also provides a comprehensive review of the design process in the electric hybrid drive and energy storage systems. Ideal for automotive engineering students and professionals Lightweight Electric/Hybrid Vehicle Design provides a complete introduction to this important new sector of the industry. comprehensive coverage of all design aspects of electric/hybrid cars in a single volume packed with case studies and applications in-depth treatment written in a text book style (rather than a theoretical specialist text style)

Marine Wastewater Outfalls and Treatment Systems 2010 This book concerns the design of marine wastewater

Geography for Life Roger M. Downs 2012 The second edition of the national geography standards for geography education.

Muscle Relaxants Kazuaki Fukushima 2013-06-29 At the Fifth International Neuromuscular Meeting held in Tokyo in 1994, leading experts in the field came together to discuss the physiology and pharmacology of neuromuscular receptor sites and neuromuscular blocking agents (NBAs). The proceedings of the meeting present a review of the history of muscle relaxants and a comprehensive examination of recent research, with a primary focus on clinical considerations. Among the topics covered by specific chapters are aspects of the neuromuscular

junction (NMJ), pharmacokinetics, metabolism and metabolites of neuromuscular blocking agents, and drug interaction. Presenting the most up-to-date knowledge of the physiology and pharmacology of the NMJ and NBAs, this volume will be highly valuable to clinicians and researchers in anesthesiology, physiology, and pharmacology.

Controlling Radiated Emissions by Design Michel Mardiguian 2014-05-28 The 3rd edition of Controlling Radiated Emissions by Design has been updated to reflect the latest changes in the field. New to this edition is material on aspects of technical advance, specifically long term energy efficiency, energy saving, RF pollution control, etc. This book retains the step-by-step approach for incorporating EMC into every new design, from the ground up. It describes the selection of quieter IC technologies, their implementation into a noise-free printed circuit layout, and the gathering of all these into low radiation packaging, including I/O filtering, connectors and cables considerations. All guidelines are supported by thorough and comprehensive calculated examples. Design engineers, EMC specialists and technicians will benefit from learning about the development of more efficient and economical control of emissions.

Chemical Physics of Intercalation A.P. Legrand 2013-12-11 Conjugated polymers such as polyacetylene (CH)_x polyphenylene (C₆H₄)_x poly thiophene (C₄H₂S)_x etc., which are insulators in their pristine state, can be brought to the metallic state after "doping" with chemical species which can be either electron donors or I acceptors. This doping process involves a charge transfer between the dopant molecule and the polymer chain which are then supposed to be spatially close to each other. It follows that the mechanism of doping must be considered as an actual intercalation process, which will greatly affect the structural characteristics of the starting material, as well as its morphology, as has been observed during the 2 intercalation of graphite and layered compounds. In parallel with these modifications, the band structure of the system changes yielding a new set of electronic properties. It is evident therefore that the structural and electronic properties are intimately related, and must be studied simultaneously in the same system to give reliable information. A great number of studies have been devoted to the structural and electronic properties of conjugated polymers after a chemical or 2 electrochemical doping process. Most of these concern the properties of the system for a given dopant concentration. With this approach a universal picture of the polymer/dopant system is very difficult to obtain, as a comparison between different experiments is very hazardous. On the other hand, only a small number of measurements have been performed during the continuous electrochemical doping of various polymers.

Proceedings of the 28th International Symposium on Mine Planning and Equipment Selection - MPES 2019 Erkan Topal 2019-11-29 This conference proceedings presents the research papers in the field of mine planning and mining equipment including themes such as mine automation, rock mechanics, drilling, blasting, tunnelling and excavation engineering. The papers presents the recent advancement and the application of a range of technologies in the field of mining industry. It is of interest to the professionals who practice in mineral industry including but not limited to engineers, consultants, managers, academics, scientist, and government staff.

Petroleum Production Engineering Boyun Guo, 2017-02-10 Petroleum Production Engineering, Second Edition, updates both the new and veteran engineer on how to employ day-to-day production fundamentals to solve real-world challenges with modern technology. Enhanced to include equations and references with today's more complex systems, such as working with horizontal wells, workovers, and an entire new section of chapters dedicated to flow assurance, this go-to reference remains the most all-inclusive source for answering all upstream and midstream production issues. Completely updated with five sections covering the entire production spectrum, including well productivity, equipment and facilities, well stimulation and workover, artificial lift methods, and flow assurance, this updated edition continues to deliver the most practical applied production techniques, answers, and methods for today's production engineer and manager. In addition, updated Excel spreadsheets that cover the most critical production equations from the book are included for download. Updated to cover today's critical production challenges, such as flow assurance, horizontal and multi-lateral wells, and workovers Guides users from theory to practical application with the help of over 50 online Excel spreadsheets that contain basic production equations, such as gas lift potential, multilateral gas well deliverability, and production forecasting Delivers an all-inclusive product with real-world answers for training or quick look up solutions for the entire petroleum production spectrum

Matlab Emilson Pereira Leite 2010

The Revenue Growth Habit Alex Goldfayn 2015-07-07 800-CEO-Read Sales Book Of The Year for 2015 | Forbes 15 Best Business Books of 2015 | "The chapters, (46 of them in this 256 page book) are quick and concise, and it is easy to pick it up anywhere and find a nugget of easily actionable advice, but the kicker is that the actions he recommends are also quick and concise, so that we can accomplish them in the few bursts of spare time we all have left." – 800CEORead.com "Follow Goldfayn's brilliant advice and you will have an endless supply of customer testimonials, spontaneous referrals, and new business, and it will compel you to buy a beautiful fountain pen and stop obsessing over social media. His advice simply works." – Inc.com Grow your business by 15% with these proven daily growth actions Do you have trouble finding time during your hectic day to grow your business? Is your company stalled because you are too busy reacting to customer problems? Do you lack the funds to jumpstart an effective marketing plan? The Revenue Growth Habit gives business owners, leaders, and all customer facing staff a hands-on resource for increasing revenue that is fast, easy, and requires no financial investment. Alex Goldfayn, CEO of the Evangelist Marketing Institute, shows how to grow your organization by 15% or more in 15 minutes or less per day—without spending a penny of your money. Forget about relying on social media. Posting on Twitter, Facebook, and LinkedIn doesn't grow revenue, especially for business-to-business companies. The Revenue Growth Habit shows how to request and collect testimonials and how to communicate these testimonials to grow your

business. You will discover how to write powerful case studies, ask for (and get!) referrals, grow your lists, and send a revenue-growing newsletter. Goldfayn also includes information for teaching your customer service people how to inform your current clients about what else they can buy from you. This proven approach revolves around letting your customers tell your story. There is nothing you can say about your products and services that is more effective than what your paying customers say. How does it work? Each day, take one quick, proactive communication action that tells someone about how they'll be improved after buying from you. Choose from the 22 actions Goldfayn details in *The Revenue Growth Habit*. Each technique is fast, simple, and free. It only requires your personal effort to communicate the value of your product or service to someone who can buy from you. Personal communication—the key to the 22 action steps—will make your company stand head-and-shoulders above the competition.

Water Management at Abandoned Flooded Underground Mines Christian Wolkersdorfer 2008-02-01 This book addresses the processes related to mine abandonment from a hydrogeological perspective and provides a comprehensive presentation of water management and innovative tracer techniques for flooded mines. After an introduction to the relevant hydrogeochemical processes the book gives detailed information about mine closure procedures. The book also includes case studies and hints, and some new methodologies for conducting tracer tests in flooded mines. **Citroen ZX** Mark Coombs 2000 Hatchback & Estate, inc. special/limited editions. Does NOT cover 1998cc XU10J4RS 16-valve engine introduced in 1997 Petrol: 1.1 litre (1124cc), 1.4 litre (1360cc), 1.6 litre (1580cc), 1.8 litre (1761cc), 1.9 litre (1905cc) & 2.0 litre (1998cc).

The Glaucoma Book Paul N. Schacknow 2010-06-10 Complete evidence-based medical and surgical management of glaucoma for both the general ophthalmologist in practice and residents The only book that covers the new generation of glaucoma procedures including trabectome, trabecular bypass and canaloplasty, by the experts who developed them Includes the latest laser treatments for glaucoma including micro diode and titanium sapphire trabeculoplasty as well as laser from an external approach The most comprehensive coverage of the optic nerve and the importance of nerve fiber layer hemorrhage Provides an integrated approach to neovascular glaucoma merging treatment to the retina, with the use of new anti-VEGF drugs, tubes, and shunts to achieve the best outcome Integrates clinical science with basic science to outline the next steps in glaucoma therapy

Soil-based Wastewater Treatment Jose A. Amador 2020-01-22 Our book addresses the needs of practitioners, engineers, scientists, regulators, resource managers, planners, and others with a need to know about septic systems. It arose after discussions about the need for a text that integrated current understanding of the hydrologic, physical, chemical, and biological processes involved in the treatment of wastewater using soil. In our experience, people working with septic systems – ourselves included – have a fragmented understanding of what these systems are, how they function, how wastewater moves through soil, how and which pollutants are removed, and how these systems impact the environment and public health. The relevant information is scattered across disciplines, information sources and audiences. This book is an attempt to collect and integrate this information in one place, and provide a scientific framework for understanding soil-based wastewater treatment.

Handbook of Paper and Board Herbert Holik 2013-03-25 Papermaking is a fascinating art and technology. The second edition of this successful 2 volume handbook provides a comprehensive view on the technical, economic, ecologic and social

background of paper and board. It has been updated, revised and largely extended in depth and width including the further use of paper and board in converting and printing. A wide knowledge basis is a prerequisite in evaluating and optimizing the whole process chain to ensure efficient paper and board production. The same is true in their application and end use. The book covers a wide range of topics:

- * Raw materials required for paper and board manufacturing such as fibers, chemical additives and fillers
- * Processes and machinery applied to prepare the stock and to produce the various paper and board grades including automation and trouble shooting
- * Paper converting and printing processes, book preservation
- * The different paper and board grades as well as testing and analysing fiber suspensions, paper and board products, and converted or printed matters
- * Environmental and energy factors as well as safety aspects.

The handbook will provide professionals in the field, e. g. papermakers as well as converters and printers, laymen, students, politicians and other interested people with the most up-to-date and comprehensive information on the state-of-the-art techniques and aspects involved in paper making, converting and printing.

Structure-Property Relations in Nonferrous Metals Alan Russell 2005-07-08 This junior/senior textbook presents fundamental concepts of structure property relations and a description of how these concepts apply to every metallic element except iron. Part One of the book describes general concepts of crystal structure, microstructure and related factors on the mechanical, thermal, magnetic and electronic properties of nonferrous metals, intermetallic compounds and metal matrix composites. Part Two discusses all the nonferrous metallic elements from two perspectives: First it explains how the concepts presented in Part One define the properties of a particular metallic element and its alloys. Second is a description of the major engineering uses of each metal. This section features sidebar pieces describing particular physical property oddities, engineering applications and case studies. An Instructor's Manual presenting detailed solutions to all the problems in the book is available from the Wiley editorial department. An Instructor's Manual presenting detailed solutions to all the problems in the book is available from the Wiley editorial department.

Shape Memory Alloy Engineering Antonio Concilio 2014-09-25 Shape Memory Alloy Engineering introduces materials, mechanical, and aerospace engineers to shape memory alloys (SMAs), providing a unique perspective that combines fundamental theory with new approaches to design and modeling of actual SMAs as compact and inexpensive actuators for use in aerospace and other applications. With this book readers will gain an understanding of the intrinsic properties of SMAs and their characteristic state diagrams, allowing them to design innovative compact actuation systems for applications from aerospace and aeronautics to ships, cars, and trucks. The book realistically discusses both the potential of these fascinating materials as well as their limitations in everyday life, and how to overcome some of those limitations in order to achieve proper design of useful SMA mechanisms. Discusses material characterization processes and results for a number of newer SMAs Incorporates numerical (FE) simulation and integration procedures into commercial codes (Msc/Nastran, Abaqus, and others) Provides detailed examples on design procedures and optimization of SMA-based actuation systems for real cases, from specs to verification lab tests on physical demonstrators One of the few SMA books to include design and set-up of demonstrator characterization tests and correlation with numerical models

Systems Modeling and Simulation: Theory and Applications Doo-Kwon Baik 2005-01-31 This book constitutes the refereed post-proceedings of the third Asian Simulation

Conference, AsiaSim 2004, held in Jeju Island, Korea in October 2004. The 78 revised full papers presented together with 2 invited keynote papers were carefully reviewed and selected from 178 submissions; after the conference, the papers went through another round of revision. The papers are organized in topical sections on modeling and simulation methodology, manufacturing, aerospace simulation, military simulation, medical simulation, general applications, network simulation and modeling, e-business simulation, numerical simulation, traffic simulation, transportation, virtual reality, engineering applications, and DEVS modeling and simulation.

Operating Summary United States. General Services Administration 1983

REWAS 2013 Enabling Materials Resource Sustainability Anne Kvithyld 2013-02-13

This volume compiles topics from the REWAS 2013, focusing on different aspects of sustainability. It discusses how to realize sustainability in such areas as transportation, the built environment, electrical and electronic equipment and infrastructure, energy production, and water systems. Enabling sustainability topics include the use of metals and materials processing, recycling and recovery, as well as process design and modeling. The book focuses on understanding sustainability through life cycle management and analysis, systems modeling and design, and education and consumer awareness.

Concert Lighting James Moody 2016-10-04 Concert Lighting: Tools, Techniques, Art, and Business Fourth Edition provides readers with an updated look at how to succeed in the complex world of concert lighting design and technology. The authors have reorganized the book into three comprehensive and thoroughly revised sections, covering history, equipment and technology, and design, and containing new information on LED technology, pixel mapping, projection options, media servers, automated lighting, solutions for moving lights, DMX, and Ethernet problems, and designer communication and collaboration. This book also explores the cross-media use of concert lighting techniques in film, video, theatre, and the corporate world, highlighted with advice from master designers such as Bruce Rodgers, Cosmo Wilson, and Sarah Landau. From securing precious contracts to knowing the best equipment to use to design a show, Concert Lighting covers everything a designer needs to know about working in the touring industry.

Black Holes and Time Warps Kip S. Thorne 1994 Examines such phenomena as black holes, wormholes, singularities, gravitational waves, and time machines, exploring the fundamental principles that control the universe.

Inorganic Materials Synthesis and Fabrication John N. Lalena 2008-01-09 This up-to-date, single-source reference on the preparation of single-phase inorganic materials covers the most important methods and techniques in solid-state synthesis and materials fabrication. Presenting both fundamental background and advanced methodologies, it describes the principles of crystallography, thermodynamics, and kinetics required, addresses crystallographic and microstructural considerations, and describes various kinds of reactions. This is an excellent text for materials science and engineering, chemistry, and physics students, as well as a practical, hands-on reference for working professionals.

Inorganic Pigments Gerhard Pfaff 2017-09-11 The book provides a complete overview on inorganic pigments and their use in dye industry. Each chapter introduces a certain class of pigment in respect of fundamentals, manufacture, properties and toxicology and thus being very valuable for paint chemists and materials specialists. The readers will benefit from a concise and well-structured text, numerous examples and a set of test questions in the end of each chapter.

Microcomputer Interfacing Bruce A. Artwick 1980 Integrates the information

necessary to conceptualize, select, mate and match, build, and interface microcomputer systems to most applications.

Nondestructive Evaluation (NDE) Capabilities Data Book (3rd Edition). 1997 This Data Book consolidates and organizes available reference data for demonstrated NDE performance capabilities into a single source. Guidelines are presented for selecting options for use of NDE and for assessing the potential to meet design requirements (critical flaw detection requirements). Guidelines for demonstration of specific NDE process capabilities are also presented. Following a 65 page text (7 chapters) describing various aspects of NDE capabilities quantification, probability of detection (POD), and damage tolerance concepts, 423 POD curves are organized and presented in a series of Appendices organized by NDE method. A documentation page precedes each dataset and provides a condensed description of the test object, test artifact and data collection conditions follow the documentation page. POD data are generally presented as a function of crack length. For selected datasets, POD data are also presented as a function of crack depth and crack depth-to-thickness ratio. POD curves are based on hit/miss data using the log-logistic model. Original reference source information is provided for each dataset.

Atomic Layer Deposition for Semiconductors Cheol Seong Hwang 2013-10-18 Offering thorough coverage of atomic layer deposition (ALD), this book moves from basic chemistry of ALD and modeling of processes to examine ALD in memory, logic devices and machines. Reviews history, operating principles and ALD processes for each device.

Mechanical Measurements S. P. Venkateshan 2021 This book focuses both on the basics and more complex topics in mechanical measurements such as measurement errors & statistical analysis of data, regression analysis, heat flux, measurement of pressure, and radiation properties of surfaces. End of chapter problems, solved illustrations, and exercise problems are presented throughout the book to augment learning. It is a useful reference for students in both undergraduate and postgraduate programs.

The Whirlwind War Frank N. Schubert 1995 CMH Publication 70-30. Edited by Frank N. Schubert and Theresa L. Kraus. Discusses the United States Army's role in the Persian Gulf War from August 1990 to February 1991. Shows the various strands that came together to produce the army of the 1990s and how that army in turn performed under fire and in the glare of world attention. Retains a sense of immediacy in its approach. Contains maps which were carefully researched and compiled as original documents in their own right. Includes an index.

Revolutionizing Product Development Steven C. Wheelwright 1992-06-15 Today, a company's capability to conceive and design quality prototypes and bring a variety of superior products to market quicker than its competitors is increasingly the focal point of competition, contend leading product development experts Steven Wheelwright and Kim Clark. Drawing on six years of in-depth, systematic, worldwide research, they present proven principles for developing the critical capabilities for speed, efficiency, and quality that have worked again and again in scores of successful Japanese, American, and European fast-cycle firms. The authors argue that to survive, let alone succeed, today's companies must construct a new "platform" -- with new methodologies -- on which they can compete. Using their model for development strategies, Wheelwright and Clark show that firms can create a solid architecture for the integration of marketing, manufacturing, and design functions for problem solving and fast action -- particularly during the critical design-build-test cycles of prototype creation. They demonstrate further how

successful firms such as Honda in automobiles, Compaq in personal computers, Applied Materials in semi-conductors, Sony in audio equipment, The Limited in apparel, and Hill-Rom in hospital beds have employed recent methodologies to bring new products to market at break-neck speed. Such innovations include design for manufacturability, quality function deployment, computer-aided design, and computer-aided engineering. Finally, Wheelwright and Clark emphasize the importance of learning in the organization. Companies that consistently "design it right the first time" and follow a path of continuous improvement in product and process development have a formidable edge in the crucial race to market.

Learning R Richard Cotton 2013-09-09 Learn how to perform data analysis with the R language and software environment, even if you have little or no programming experience. With the tutorials in this hands-on guide, you'll learn how to use the essential R tools you need to know to analyze data, including data types and programming concepts. The second half of Learning R shows you real data analysis in action by covering everything from importing data to publishing your results. Each chapter in the book includes a quiz on what you've learned, and concludes with exercises, most of which involve writing R code. Write a simple R program, and discover what the language can do Use data types such as vectors, arrays, lists, data frames, and strings Execute code conditionally or repeatedly with branches and loops Apply R add-on packages, and package your own work for others Learn how to clean data you import from a variety of sources Understand data through visualization and summary statistics Use statistical models to pass quantitative judgments about data and make predictions Learn what to do when things go wrong while writing data analysis code

Progress in Precision Engineering Peter Seyfried 2012-12-06 by Professor Pat McKeown Cranfield Precision Engineering, UK Member of Joint Organising Committee IPES6/UME2 PROGRESS IN PRECISION ENGINEERING Metal working companies in tool making, prototype manufacture and subcontract machining often use the label "precision engineering" to indicate that they are accustomed to working to finer tolerances than is normally expected in series production. But what we are concerned with in this and our preceding international conferences is much wider and deeper than this. Precision engineering is a grouping of multidisciplinary scientific and engineering skills and techniques, firmly based on dimensional metrology, by which a wide range of new advanced technology products is made possible. In the last 5 - 10 years we have witnessed dramatic progress in precision engineering, particularly by the rapid development of its important subsets, micro-engineering and nanotechnology. It is a particular pleasure for me and my colleagues on the Organising Committee to welcome you to Braunschweig on the occasion of this the first joint international meeting in high precision manufacturing/precision engineering to be held in Germany. Our aim is to bring together the world's leading precision engineering practitioners from areas of application as diverse as optics for astronomy, micro and nano machining process research, design and development of ultra precision machine tools and metrology equipment, advanced materials, bio medical research and new sensor/transducer systems.

Progress in Artificial Intelligence Paulo Moura Oliveira 2019-09-03 This book constitutes the refereed proceedings of the 19th EPIA Conference on Artificial Intelligence, EPIA 2019, held in Funchal, Madeira, Portugal, in September 2019. The 119 revised full papers and 6 short papers presented were carefully reviewed and selected from a total of 252 submissions. The papers are organized in 18 tracks devoted to the following topics: AIED - Artificial Intelligence in

Education, AI4G - Artificial Intelligence for Games, AIoTA - Artificial Intelligence and IoT in Agriculture, AIL - Artificial Intelligence and Law, AIM - Artificial Intelligence in Medicine, AICPDES - Artificial Intelligence in Cyber-Physical and Distributed Embedded Systems, AIPES - Artificial Intelligence in Power and Energy Systems, AITS - Artificial Intelligence in Transportation Systems, ALEA - Artificial Life and Evolutionary Algorithms, AmIA - Ambient Intelligence and Affective Environments, BAAI - Business Applications of Artificial Intelligence, GAI- General AI, IROBOT - Intelligent Robotics, KDBI - Knowledge Discovery and Business Intelligence, KRR - Knowledge Representation and Reasoning, MASTA - Multi-Agent Systems: Theory and Applications, SSM - Social Simulation and Modelling, TeMA - Text Mining and Applications.

Practical Aspects of Knowledge Management Dimitris Karagiannis 2004-12-01 This book contains the papers presented at the 5th International Conference on Practical Aspects of Knowledge Management organized by the Department of Knowledge Management, Institute of Computer Science and Business Informatics, University of Vienna. The event took place on December 02-03, 2004 in Vienna. The PAKM conference series offers a communication forum and meeting ground for practitioners and researchers engaged in developing and deploying advanced business solutions for the management of knowledge and intellectual capital. Contributions pursuing integrated approaches which consider organizational, technological and cultural issues of knowledge management have been elected for presentation. PAKM is a forum for people to share their views, to exchange ideas, to develop new insights, and to envision completely new kinds of solutions for knowledge management problems. The accepted papers are of high quality and are not too specialized so that the main issues can be understood by someone outside the respective field. This is crucial for an interdisciplinary exchange of ideas. Like its predecessors, PAKM 2004 featured two invited talks. It is a real joy seeing the visibility of the conference increase and noting that knowledge management researchers and practitioners from all over the world submitted papers. This year, 163 papers and case studies were submitted, from which 48 were accepted.

Copper and Bronze in Art David A. Scott 2002 Pigments, corrosion products, and minerals are usually considered separately, either as painting materials or as the deterioration products of metals, even though they are often the same compounds. This 190-year review of the literature on copper and its alloys integrates that information across a broad spectrum of interests that are all too frequently compartmentalized. The author discusses the various environmental conditions to which copper alloy objects may be exposed-including burial, outdoor, and indoor museum environments-and the methods used to conserve them. The book also includes information on ancient and historical technologies, the nature of patina as it pertains to copper and bronze, and the use of copper corrosion materials as pigments. Chapters are organized primarily by chemical corrosion products and include topics such as early technologies, copper chlorides and bronze disease, the chemistry and history of turquoise, Egyptian blue and other synthetic copper

silicates, the organic salts of copper in bronze corrosion, and aspects of bronze patinas. A detailed survey of conservation treatments for bronze objects is also provided. Four appendixes cover copper and bronze chemistry, replication experiments for early pigment recipes, a list of copper minerals and corrosion products, and X-ray diffraction studies.

Solid State Chemistry and Its Applications Anthony R. West 1991-01-08 The first broad account offering a non-mathematical, unified treatment of solid state chemistry. Describes synthetic methods, X-ray diffraction, principles of inorganic crystal structures, crystal chemistry and bonding in solids; phase diagrams of 1, 2 and 3 component systems; the electrical, magnetic, and optical properties of solids; three groups of industrially important inorganic solids--glass, cement, and refractories; and certain aspects of organic solid state chemistry, including the 'organic metal' of new materials.

Coastal Ecological Systems of the United States Howard T. Odum 1974-06-01
Computer Science for Environmental Engineering and EcoInformatics Yuanxu Yu 2011-07-18 This two-volume set (CCIS 158 and CCIS 159) constitutes the refereed proceedings of the International Workshop on Computer Science for Environmental Engineering and EcoInformatics, CSEEE 2011, held in Kunming, China, in July 2011. The 150 revised full papers presented in both volumes were carefully reviewed and selected from a large number of submissions. The papers are organized in topical sections on computational intelligence; computer simulation; computing practices and applications; ecoinformatics; image processing information retrieval; pattern recognition; wireless communication and mobile computing; artificial intelligence and pattern classification; computer networks and Web; computer software, data handling and applications; data communications; data mining; data processing and simulation; information systems; knowledge data engineering; multimedia applications.

Handbook of Ferroalloys Michael Gasik 2013-05-04 This handbook gathers, reviews and concisely presents the core principles and varied technology involved in processing ferroalloys. Background content in thermodynamics, kinetics, heat and mass transfer is accompanied by an overview of electrical furnaces theory and practice as well as sustainability issues. The work includes detailed coverage of the major technologies of ferrosilicon, ferronickel, ferromolybdenum, ferrotungsten, ferrovanadium, ferromanganese and lesser known minor ferroalloys. Distilling the results of many years' experience in ferroalloys, Michael Gasik has assembled contributions from the worlds' foremost experts. The work is therefore a unique source for scientists, engineers and university students, exploring in depth an area which is one of the most versatile and increasingly used fields within modern metallurgy. All-in-one source for the major ferroalloys and their metallurgical processing technologies, cutting research time otherwise spent digging through old handbooks or review articles. In-depth discussion of the C, Si, Al-reduction, groups II-VIII of the periodic table, supporting analysis of metallurgical processing. Contemporary coverage includes environment and energy saving issues.