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Vols. for 1964- have guides and journal lists.

In recent years, much attention has been focused on biodegradable polymers from renewable resources. Due to its availability and low cost, starch is a promising candidate among biopolymers for use in biodegradable packaging materials and for other purposes. Starch-Based Polymeric Materials and Nanocomposites: Chemistry, Processing, and Applications

Authored by two longtime researchers in tobacco science, The Chemical Components of Tobacco and Tobacco Smoke, Second Edition chronicles the progress made from late 2008 through 2011 by scientists in the field of tobacco science. The book examines the isolation and characterization of each component. It explores developments in pertinent analytical

Piping and Pipeline Calculations Manual, Second Edition provides engineers and designers with a quick reference guide to calculations, codes, and standards applicable to piping systems. The book considers in one handy reference the multitude of pipes, flanges, supports, gaskets, bolts, valves, strainers, flexibles, and expansion joints that make up these often complex systems. It uses hundreds of calculations and examples based on the author's 40 years of

experiences as both an engineer and instructor. Each example demonstrates how the code and standard has been correctly and incorrectly applied. Aside from advising on the intent of codes and standards, the book provides advice on compliance. Readers will come away with a clear understanding of how piping systems fail and what the code requires the designer, manufacturer, fabricator, supplier, erector, examiner, inspector, and owner to do to prevent such failures. The book enhances participants' understanding and application of the spirit of the code or standard and form a plan for compliance. The book covers American Water Works Association standards where they are applicable. Updates to major codes and standards such as ASME B31.1 and B31.12 New methods for calculating stress intensification factor (SIF) and seismic activities Risk-based analysis based on API 579, and B31-G Covers the Pipeline Safety Act and the creation of PhMSA

The new and improved IIAR 2 is the definitive design safety standard of the ammonia refrigeration industry - IIAR 2 has undergone extensive revision since the 2008 (with Addendum B) edition was published on December 3, 2012. A major focus of changes made to this edition has been incorporating topics traditionally addressed in other codes and standards so that IIAR 2 can eventually serve as a single, comprehensive standard covering safe design of

closed-circuit ammonia refrigeration systems.

This IBM® Redbooks® publication provides a broad view of how Tivoli® system management products work together in several common scenarios. You must achieve seamless integration for operations personnel to work with the solution. This integration is necessary to ensure that the product can be used easily by the users. Product integration contains multiple dimensions, such as security, navigation, data and task integrations. Within the context of the scenarios in this book, you see examples of these integrations. The scenarios implemented in this book are largely based on the input from the integration team, and several clients using IBM products. We based these scenarios on common real-life examples that IT operations often have to deal with. Of course, these scenarios are only a small subset of the possible integration scenarios that can be accomplished by the Tivoli products, but they were chosen to be representative of the integration possibilities using the Tivoli products. We discuss these implementations and benefits that are realized by these integrations, and also provide sample scenarios of how these integrations work. This book is a reference guide for IT architects and IT specialists working on integrating Tivoli products in real-life environments.

Originally published in 1972, Themes and Images in the Medieval English

Religious Lyric discusses themes and images in religious lyric poetry in Medieval English poetry. The book looks at the affect that tradition and convention had on the religious poetry of the medieval period. It examines the background of the lyrics, including the Latin tradition which was inherited by medieval vernacular and shows how religious lyric poetry presents, through a rich variety of images, the significant incidents in the scheme of Christ's redemption, such as the Annunciation, the Nativity, the Passion and the Resurrection. It also considers the lyrics which were designed to assist humanity in the task of living in a Christian life, as well as those which prepared them for death.

Demanding a thorough knowledge of material behaviour and numerical modelling, site characterisation and in situ test interpretation are no longer just basic empirical recommendations. Giving a critical appraisal of the understanding and assessment of the stress-strain-time and strength characteristics of geomaterials, this book explores new interpretation methods for measuring properties of a variety of soil formations. Emphasis is given to the five most commonly encountered in situ test techniques: standard penetration tests cone penetration tests vane test pressuremeter tests dilatometer tests Ideal for practising engineers in the fields of geomechanics and environmental engineering, this book solves numerous common problems in site

characterisation. It is also a valuable companion for students coming to the end of their engineering courses and looking to work in this sector.

The popularity of the Internet and the affordability of IT hardware and software have resulted in an explosion of applications, architectures, and platforms. Workloads have changed. Many applications, including mission-critical ones, are deployed on a variety of platforms, and the System z® design has adapted to this change. It takes into account a wide range of factors, including compatibility and investment protection, to match the IT requirements of an enterprise. The zEnterprise System consists of the IBM zEnterprise 196 central processor complex, the IBM zEnterprise Unified Resource Manager, and the IBM zEnterprise BladeCenter® Extension. The z196 is designed with improved scalability, performance, security, resiliency, availability, and virtualization. The z196 Model M80 provides up to 1.6 times the total system capacity of the z10TM EC Model E64, and all z196 models provide up to twice the available memory of the z10 EC. The zBX infrastructure works with the z196 to enhance System z virtualization and management through an integrated hardware platform that spans mainframe, POWER7™, and System x® technologies. Through the Unified Resource Manager, the zEnterprise System is managed as a single pool of resources, integrating system and workload management across the environment. This IBM® Redbooks® publication provides an overview of the zEnterprise System and its functions, features, and associated software support. Greater detail is offered in areas relevant to technical

planning. This book is intended for systems engineers, consultants, planners, and anyone wanting to understand the zEnterprise System functions and plan for their usage. It is not intended as an introduction to mainframes. Readers are expected to be generally familiar with existing IBM System z technology and terminology. The changes to this edition are based on the System z hardware announcement dated July 12, 2011. This work features insights on valve sizing, smart (digital) positioners, field-based architecture, network system technology, and control loop performance evaluation. Baumann shares his expertise on designing control loops and selecting final control elements.

Benvenuti describes the relationship between the Internet's TCP/IP implementation and the Linux Kernel so that programmers and advanced administrators can modify and fine-tune their network environment.

Appropriate for a first course on computer networking, this textbook describes the architecture and function of the application, transport, network, and link layers of the internet protocol stack, then examines audio and video networking applications, the underpinnings of encryption and network security, and the key issues of network management. Th

Reduce Your Carbon Footprint with Green Cuisine "Going green" has spread to the kitchen! Big Green Cookbook is the first comprehensive, climate-conscious cookbook, ideal for both culinary novices and experienced cooks. Food and health expert Jackie

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Newgent reveals simple, practical, and sometimes even money-saving solutions for choosing and preparing food in planet-pleasing ways. It has never been easier to create everyday meals that maximize flavor while minimizing your environmental impact.

Inside you'll find: A green kitchen checklist Over 200 delicious, easy-to-prepare, seasonal recipes that feature fresh, all-natural foods Guidelines for going organic and tips for buying locally Nutrition information and earth-friendly cooking tips with every recipe Clever, new techniques for low-carbon cooking An eco-friendly shopping guide and seasonal produce guide "The Big Green Cookbook shows you how deliciously easy it can be to reduce your carbon 'food' print. It's the perfect tool for anyone who wants to eat well and treat the earth right." —Ellie Krieger, host of Food Network's Healthy Appetite and author of The Food You Crave "Big Green Cookbook is THE step-by-step guide for greening your kitchen and your cuisine. Packed with easy tips and fantastic recipes based on the best of the season, Jackie Newgent shows America how tasty green cuisine can be, and why it's so critical to our planet." —Kate Geagan, MS, RD, author of Go Green Get Lean

This is the only book of its kind to provide an overview of the science of flavonoids in plants.

Clinicians from many disciplines have been challenged to provide appropriate and effective interventions for the diverse behavioral symptoms that define the neurologically degenerative condition, dementia. SLPs have only recently begun to

develop assessment and treatment approaches for the cognitive and communication deficits that accompany dementia. This timely volume aims to serve as a reference manual and the starting point for those who want to provide life-enhancing services to persons with dementia, and to inspire the continued generation of quality research to demonstrate the value of cognitive-communication intervention. Students, researchers, and practitioners in all areas of communication sciences and disorders will find this book immensely helpful.

"A literal construction of the EC and EU Treaties suggests that their framers intended to limit the positive competences of both the Community and the Union in the field of criminal law. However, the European Court of Justice has consistently applied tests of necessity and effectiveness to develop the Community's catalogue of legislative competences and the interpretation of Community law, culminating in decisions which accord to the Community a limited criminal competence where this is deemed necessary for the effectiveness of other policy aims. This book takes stock of the development of criminal law in the context of the European Community and the European Union, and examines whether this has led to a European criminal policy, and interrogates the legal effects that European-level initiatives in the field have on national criminal law and on suspects. The work reflects on the interaction between the law of the European Community and national criminal law since the signing of the Treaty of Rome and proceed to consider the prospects of criminal law enacted at the European

level against this framework of historical development. The book will review the supremacy of Community law over conflicting national criminal law, the past legislative practice of harmonised 'administrative' penalties and their impact on national legal systems, the ramifications of the Greek Maize decision, the development of relevant Community principles of fundamental rights, and the 2005 decisions on implied criminal competence and sympathetic interpretation. In the light of these developments and the judgment of the Court of Justice in the Ship-Source Pollution case, the work will explore whether there are fields in which the Community might enact directly applicable criminal penalties in the form of EC regulations. It will also examine related doctrinal concerns considered by the Court of Justice in its earlier case law on the interface between EC law and national criminal law. "--

The world is being transformed physically and politically. Technology is the handmaiden of much of this change. But since the current sweep of global change is transforming the face of warfare, Special Operations Forces (SOF) must adapt to these circumstances. Fortunately, adaptation is in the SOF DNA. This book examines the changes affecting SOF and offers possible solutions to the complexities that are challenging many long-held assumptions. The chapters explore what has changed, what stays the same, and what it all means for U.S. SOF. The authors are a mix of leading experts in technology, business, policy,

intelligence, and geopolitics, partnered with experienced special operators who either cowrote the chapters or reviewed them to ensure accuracy and relevance for SOF. Our goal is to provide insights into the changes around us and generate ideas about how SOF can adapt and succeed in the emerging operational environment.

Offers a complete overview of the principles, theories and key applications of modern mass spectrometry in this introductory textbook. Following on from the highly successful first edition, this edition is extensively updated including new techniques and applications. All instrumental aspects of mass spectrometry are clearly and concisely described; sources, analysers and detectors. * Revised and updated * Numerous examples and illustrations are combined with a series of exercises to help encourage student understanding * Includes biological applications, which have been significantly expanded and updated * Also includes coverage of ESI and MALDI

In chapters contributed by 24 university & government laboratories, Nanoengineering of Structural, Functional, and Smart Materials combines wide-ranging research aimed at the development of multifunctional materials that are strong, lightweight, and versatile. This book explores promising and diverse approaches to the design of nanoscale

Third Printing, incorporating errata, Supplement 1, and expanded commentary, 2013.

The Encyclopedia of Caves and Karst Science contains 350 alphabetically arranged entries. The topics include cave and karst geoscience, cave archaeology and human use of caves, art in caves, hydrology and groundwater, cave and karst history, and conservation and management. The Encyclopedia is extensively illustrated with photographs, maps, diagrams, and tables, and has thematic content lists and a comprehensive index to facilitate searching and browsing.

IBM® System z® servers offer a full range of connectivity options for attaching peripheral or internal devices for input and output to the server. At the other end of these connections are a variety of devices for data storage, printing, terminal I/O, and network routing. This combination of connectivity and hardware offer System z customers solutions to meet most connectivity requirements. However, to make use of these features, the System z server must be properly configured. This IBM Redbooks® publication takes a high-level look at the tools and processes involved in configuring a System z server. We provide an introduction to the System z channel subsystem and the terminology frequently used in the hardware definition process. We examine the features and functions of tools

used in the hardware definition process, such as HCD, CHPID Mapping Tool, and HCM. We discuss the input and output of these tools (IODF, IOCP, IOCDS) and their relationship to one another. We also provide a high-level overview of the hardware configuration process (the flow of generating a valid I/O configuration). We provide configuration examples using both HCD and HCM. The book also discusses available new functions and guidelines for the effective use of HCD and HCM. This document is intended for system programmers and administrators who are responsible for defining and activating hardware changes to z/OS® and System z servers, and for the IBM representatives who need this information. General knowledge of z/OS and IOCP is assumed.

This book addresses the issue of climate change risks and hazards holistically. Climate change adaptation aims at managing climate risks and hazards to an acceptable level, taking advantage of any positive opportunities that may arise. At the same time, developing suitable responses to hazards for communities and users of climate services is important in ensuring the success of adaptation measures. But despite this, knowledge about adaptation options, including possible actions that can be implemented to improve adaptation and reduce the impacts of climate change hazards, is still limited. Addressing this need, the book presents studies and research findings and offers a catalogue of potential

adaptation options that can be explored. It also includes case studies providing illustrative and inspiring examples of how we can adapt to a changing climate. This second edition of *The Illustrated Wavelet Transform Handbook: Introductory Theory and Applications in Science, Engineering, Medicine and Finance* has been fully updated and revised to reflect recent developments in the theory and practical applications of wavelet transform methods. The book is designed specifically for the applied reader in science, engineering, medicine and finance. Newcomers to the subject will find an accessible and clear account of the theory of continuous and discrete wavelet transforms, while readers already acquainted with wavelets can use the book to broaden their perspective. One of the many strengths of the book is its use of several hundred illustrations, some in colour, to convey key concepts and their varied practical uses. Chapters exploring these practical applications highlight both the similarities and differences in wavelet transform methods across different disciplines and also provide a comprehensive list of over 1000 references that will serve as a valuable resource for further study. Paul Addison is a Technical Fellow with Medtronic, a global medical technology company. Previously, he was co-founder and CEO of start-up company, CardioDigital Ltd (and later co-founded its US subsidiary, CardioDigital Inc) - a company concerned with the development of novel wavelet-based

methods for biosignal analysis. He has a master's degree in engineering and a PhD in fluid mechanics, both from the University of Glasgow, Scotland (founded 1451). His former academic life as a tenured professor of fluids engineering included the output of a large number of technical papers, covering many aspects of engineering and bioengineering, and two textbooks: *Fractals and Chaos: An Illustrated Course* and the first edition of *The Illustrated Wavelet Transform Handbook*. At the time of publication, the author has over 100 issued US patents concerning a wide range of medical device technologies, many of these concerning the wavelet transform analysis of biosignals. He is both a Chartered Engineer and Chartered Physicist.

Provides background information, historical perspective, and expert commentary on the ASME B31.3 Code requirements for process piping design and construction. It provides the most complete coverage of the Code that is available today and is packed with additional information useful to those responsible for the design and mechanical integrity of process piping.

Algae have been used since ancient times as food, fodder, fertilizer and as source of medicine. Nowadays seaweeds represent an unlimited source of the raw materials used in pharmaceutical, food industries, medicine and cosmetics. They are nutritionally valuable as fresh or dried vegetables, or as ingredients in a wide variety of prepared

foods. In particular, seaweeds contain significant quantities of protein, lipids, minerals and vitamins. There is limited information about the role of algae and algal metabolites in medicine. Only a few taxa have been studied for their use in medicine. Many traditional cultures report curative powers from selected alga, in particular tropical and subtropical marine forms. This is especially true in the maritime areas of Asia, where the sea plays a significant role in daily activities. Nonetheless, at present, only a few genera and species of algae are involved in aspects of medicine and therapy. Beneficial uses of algae or algal products include those that may mimic specific manifestations of human diseases, production of antibiotic compounds, or improvement of human nutrition in obstetrics, dental research, thalassotherapy, and forensic medicine.

Valves are the components in a fluid flow or pressure system that regulate either the flow or the pressure of the fluid. They are used extensively in the process industries, especially petrochemical. Though there are only four basic types of valves, there is an enormous number of different kinds of valves within each category, each one used for a specific purpose. No other book on the market analyzes the use, construction, and selection of valves in such a comprehensive manner. Covers new environmentally-conscious equipment and practices, the most important hot-button issue in the petrochemical industry today Details new generations of valves for offshore projects, the oil industry's fastest-growing segment Includes numerous new products that have

never before been written about in the mainstream literature

This reference text is a highly useful tool for the student of Chinese religious literature as well as for general readers in need of a handy companion text to the rest of this rich collection. The dictionary in this volume contains vocabularies of Buddhist terms in Pali, Singhalese, Siamese, Burmese, Tibetan, Mongolian and Japanese. If you find yourself hampered by the continual recurrence of Sanskrit and other foreign terms embedded in texts on Tibetan Buddhism, generally with no explanation, this volume will be quite helpful in smoothing the path to understanding.

This IBM® Redbooks® publication describes the features and functions the latest member of the IBM Z® platform, the IBM z15™ (machine type 8561). It includes information about the IBM z15 processor design, I/O innovations, security features, and supported operating systems. The z15 is a state-of-the-art data and transaction system that delivers advanced capabilities, which are vital to any digital transformation. The z15 is designed for enhanced modularity, which is in an industry standard footprint. This system excels at the following tasks: Making use of multicloud integration services
Securing data with pervasive encryption
Accelerating digital transformation with agile service delivery
Transforming a transactional platform into a data powerhouse
Getting more out of the platform with IT Operational Analytics
Accelerating digital transformation with agile service delivery
Revolutionizing business processes
Blending open source and Z technologies
This book explains how this system uses new

innovations and traditional Z strengths to satisfy growing demand for cloud, analytics, and open source technologies. With the z15 as the base, applications can run in a trusted, reliable, and secure environment that improves operations and lessens business risk.

During the recent decades, social, political and academic endeavours have been made to improve environmental quality and reduce pollution. In particular, the ocean, sea and coastal areas show varying degrees of impact from the multiple human activities carried out in the terrestrial as well as in the aquatic environment. Ecology is a science which studies the relationship between organisms and the surrounding environment and in the modern era, the marine world is getting increasing attention. For centuries it has been the final reservoir of human garbage; later it became an oil farm with a concomitant increase of coastal population growth and unplanned growth of the fishing industry and the increasing use of sea routes for cargo transport and recreational uses (cruises). All this led to rising contamination with negative effects on biota and even human health. It is then imperative to know the current situation of the world's oceans: that is the main purpose of this book, to document at a glance the latest research in the field of ocean pollution.

This book is a printed edition of the Special Issue "Food Proteins and Bioactive Peptides" that was published in Foods

Hyperspectral Satellites and System Design is the first book on this subject. It provides

a systematic analysis and detailed design of the entire development process of hyperspectral satellites. Derived from the author's 25-year firsthand experience as a technical lead of space missions at the Canadian Space Agency, the book offers engineers, scientists, and decision-makers detailed knowledge and guidelines on hyperspectral satellite system design, trade-offs, performance modeling and simulation, optimization from component to system level, subsystem design, and implementation strategies. This information will help reduce the risk, shorten the development period, and lower the cost of hyperspectral satellite missions. This book is a must-have reference for professionals in developing hyperspectral satellites and data applications. It is also an excellent introductory book for early practitioners and students who want to learn more about hyperspectral satellites and their applications.

Since 1993, the Information Security Management Handbook has served not only as an everyday reference for information security practitioners but also as an important document for conducting the intense review necessary to prepare for the Certified Information System Security Professional (CISSP) examination. Now completely revised and updated and in its fifth edition, the handbook maps the ten domains of the Information Security Common Body of Knowledge and provides a complete understanding of all the items in it. This is a ...must have... book, both for preparing for the CISSP exam and as a comprehensive, up-to-date

reference.

Valve Selection Handbook
Engineering Fundamentals for Selecting the Right Valve Design for Every Industrial Flow Application
Elsevier

This IBM® Redbooks® publication helps you plan, install, configure, and manage Copy Services on the IBM DS8000® operating in an IBM Z® or Open Systems environment. This book helps you design and implement a new Copy Services installation or migrate from an existing installation. It includes hints and tips to maximize the effectiveness of your installation, and information about tools and products to automate Copy Services functions. It is intended for anyone who needs a detailed and practical understanding of the DS8000 Copy Services. This edition is an update for the DS8900 Release 9.1. Note that the Safeguarded Copy feature is covered in IBM DS8000 Safeguarded Copy, REDP-5506.

The cultural, scientific and legislative divide created by vigorous debates over the legalization of medical marijuana is giving way to a new synergy among community stakeholders across the United States. The goal is to improve access to medical marijuana for patients with refractory debilitating neurological disorders, cancer, and chronic pain as an alternative to ineffective pharmacotherapy and potentially addictive pain medications. The ultimate test of our nations resolve to ensure the welfare of our sickest patients is the enactment

and implement of effective public health reform in the area of medical marijuana, also known as medical cannabis. This book evolved out of the present need for a definitive volume on the science and public health aspects of medical cannabis to fuel this national narrative. The ethnographic research presented in the concluding chapter was inspired by Professor Miriam W. Boeri and colleagues, at Bentley University in Waltham, MA. They examined views of community stakeholders including medical marijuana dispensary entrepreneurs, health care professionals, and patients in a state that legalized medical marijuana in 2013, yet there continued to be confusion and misunderstandings in the interpretation and implementation of medical marijuana guidelines during the period of policy shifts. Apparent gaps in policy development and implementation signaled the urgency for a comparison study addressing stakeholder views in New York State, where its medical marijuana program has legally dispensed the drug since 2014. The resulting pilot study was carried out in the Division of Health Policy and Management of the City University of New York School of Public Health. The research model incorporated ethnographic and grounded methodologies to detail the views of physicians, pharmacists, educators, patients, and entrepreneur stakeholders; with triangulation of data and application of dominant themes into a socioecological framework model to identify areas of public health policy reform.

The findings of this study detail that New York, like other states that recently legalized the dispensation of medical marijuana, faces challenges beyond policy transparency, communication and education explicitly to improve the implementation process for applying and registering medical cannabis dispensaries, referring physicians, and qualified patient recipients. Ken Langone, Chairman of the Board of New York University Langone Health, and Steven Galetta, Chair of Neurology in the School of Medicine, where the authors is senior staff in neuroepidemiology, motivated him to pursue doctoral training in Health Policy and Management. The author has had the good fortune of interacting with thought-provoking medical students, neurology trainees, public health doctoral students, and professors who reinforce the high ethical standards in medical and public health practice and research. However, his patients still educate him in empathy and humanity. The author is grateful to his family, including his spouse Holly and sons Adam and Seth, who serve as his daily compass, encouraging him to take on projects that promote core values of medicine and humanity.

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