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The GOES-R Series Springer Nature

This IBM Redbooks publication shows you how to develop a JCA resource adapter based on IBM WebSphere Adapter Architecture. The custom adapter we build in this book implements J2EE Connector architecture (JCA), version 1.5, supporting managed, bidirectional connectivity between EISs and J2EE components in WebSphere Process Server. The book is divided in two parts: * The components of a WebSphere Adapter * How to implement this adapter in an integrated scenario WebSphere Adapter Architecture supports Service-Oriented Architecture (SOA), providing you with the ability to develop and modify integration applications dynamically. With SOA, you can also integrate existing applications with newer applications so that they work together transparently. WebSphere Process Server V6.0.1 is a comprehensive SOA integration platform based on WebSphere Application Server V6. You can use WebSphere Process Server to develop and execute standards-based, component-based business integration applications. Finally, we show you how to expose this adapter as an SCA service and use it with WebSphere Process server V6.0.1. Please note that the additional material referenced in the text is not available from IBM.

Fast Radial Basis Functions for Engineering Applications

Pearson Education India

This book presents the proceedings of the 2020 International Conference on Intelligent Systems Applications in Multi-modal Information Analytics, held in Changzhou, China, on June 18–19, 2020. It provides comprehensive coverage of the latest advances and trends in information technology, science and engineering. It addresses a number of broad themes, including data mining, multi-modal informatics, agent-based and multi-agent systems for health and education informatics, which inspire the development of intelligent information technologies. The contributions cover a wide range of topics such as AI applications and innovations in health and education informatics; data and knowledge management; multi-modal application management; and web/social media mining for multi-modal informatics. Outlining promising future research directions, the book is a valuable resource for students, researchers and professionals, and a useful reference guide for newcomers to the field.

Two-Dimensional Random Walk Scarborough, Ont. :
Nelson Canada

Supersymmetry is a symmetry which combines bosons and fermions in the same multiplet of a larger group which unites the transformations of this symmetry with that of spacetime. Thus every bosonic particle must have a fermionic partner and vice versa. Since this is not what is observed, this symmetry with inherent theoretical advantages must be badly broken. It is hoped that the envisaged collider experiments at CERN will permit a first experimental test, which is expected to revive the interest in supersymmetry considerably. This revised

edition of the highly successful text of 20 years ago provides an introduction to supersymmetry, and thus begins with a substantial chapter on spacetime symmetries and spinors. Following this, graded algebras are introduced, and thereafter the supersymmetric extension of the spacetime Poincaré algebra and its representations. The Wess-Zumino model, superfields, supersymmetric Lagrangians, and supersymmetric gauge theories are treated in detail in subsequent chapters. Finally the breaking of supersymmetry is addressed meticulously. All calculations are presented in detail so that the reader can follow every step.

Application of Intelligent Systems in Multi-modal Information Analytics Apress

This book presents the first "How To" guide to the use of radial basis functions (RBF). It provides a clear vision of their potential, an overview of ready-for-use computational tools and precise guidelines to implement new engineering applications of RBF. Radial basis functions (RBF) are a mathematical tool mature enough for useful engineering applications. Their mathematical foundation is well established and the tool has proven to be effective in many fields, as the mathematical framework can be adapted in several ways. A candidate application can be faced considering the features of RBF: multidimensional space (including 2D and 3D), numerous radial functions available, global and compact support, interpolation/regression. This great flexibility makes RBF attractive – and their great potential has only been partially discovered. This is because of the difficulty in taking a first step toward RBF as they are not commonly part of engineers' cultural background, but also due to the numerical complexity of RBF problems that scales up very quickly with the number of RBF centers. Fast RBF algorithms are available to alleviate this and high-performance computing (HPC) can provide further aid. Nevertheless, a consolidated tradition in using RBF in engineering applications is still missing and the beginner can be confused by the literature, which in many cases is presented with language and symbolisms familiar to mathematicians but which can be cryptic for engineers. The book is divided in two main sections. The first covers the foundations of RBF, the tools available for their quick implementation and guidelines for facing new challenges; the second part is a collection of practical RBF applications in engineering, covering several topics, including response surface interpolation in n-dimensional spaces, mapping of magnetic loads, mapping of

pressure loads, up-scaling of flow fields, stress/strain analysis by experimental displacement fields, implicit surfaces, mesh to cad deformation, mesh morphing for crack propagation in 3D, ice and snow accretion using computational fluid dynamics (CFD) data, shape optimization for external aerodynamics, and use of adjoint data for surface sculpting. For each application, the complete path is clearly and consistently exposed using the systematic approach defined in the first section.

Topology and Geometry W.E. Upjohn Institute

This book offers an introductory course in algebraic topology. Starting with general topology, it discusses differentiable manifolds, cohomology, products and duality, the fundamental group, homology theory, and homotopy theory. From the reviews: "An interesting and original graduate text in topology and geometry...a good lecturer can use this text to create a fine course....A beginning graduate student can use this text to learn a great deal of mathematics."—MATHEMATICAL REVIEWS

Introduction To Supersymmetry (2nd Edition) John Wiley & Sons

Includes a rich variety of exercises to accompany the exposition of Coxeter groups. Coxeter groups have already been exposed from algebraic and geometric perspectives, but this book will be presenting the combinatorial aspects of Coxeter groups

The Definitive Guide to HTML5 WebSocket Springer

This IBM Redbooks publication is designed for IT architects and IT specialists that are dealing with IBM WebSphere Message Broker and IBM WebSphere Enterprise Service Bus (ESB) solutions. This book illustrates how to configure an ESB using either IBM WebSphere Message Broker V6 for IBM z/OS or IBM WebSphere Enterprise Service Bus V6. It makes various traditional z/OS transactions and data available as a Web service through the broker, including IBM DB2 data, batch programs, and IBM CICS/IMS transactions. In this book, there is more focus on WebSphere Enterprise Service Bus installation and customization than on WebSphere Message Broker because the latter has already been documented in other places. This book describes multiple scenarios that show how to integrate applications using a mix of MQ and SOAP protocols using both Advanced ESB, also known as WebSphere Message Broker, and WebSphere Enterprise Service Bus. High availability using clustering of brokers in multiple logical partitions (LPARs) on z/OS is also addressed in this book, with details on which feature you can use and configure to improve continuous operation, such as shared queues, shared ports, and Sysplex Distributor. Please note that the additional material referenced in the text is not available from IBM.

A Probabilistic Theory of Pattern Recognition CSIRO PUBLISHING

Deep in the forest of Canopy Woods live many interesting animal friends. One curious fellow is Que Porcupine. Que loves all the animals in the forest. Well, he loves almost all. He is sometimes made fun of and bullied by an unlikely trio: Ronnie, Ricky, and Josephine Rabbit. They love to make fun of Que. They do not realize how their words hurt his feelings. Canopy Woods would be a wonderful place to live if not for the rabbit clan. But the rabbits soon get into a very sticky situation. They need help, and they need help fast. Will Que go to their rescue? Will he be the bigger man and forgive the rabbits? Or will Que just walk on by and let the rabbits fend for themselves? Come along on a journey through Canopy Woods to discover if Que Porcupine can be the bigger man.

Que Porcupine Springer Science & Business Media

The second edition of the highly acclaimed *Wind Power in Power Systems* has been thoroughly revised and expanded to reflect the latest challenges associated with increasing wind power penetration levels. Since its first release, practical experiences with high wind power penetration levels have significantly increased. This book presents an overview of the lessons learned in integrating wind power into power systems and provides an outlook of the relevant issues and solutions to allow even higher wind power penetration levels. This includes the development of standard wind turbine simulation models. This extensive update has 23 brand new chapters in cutting-edge areas including offshore wind farms and storage options, performance validation and certification for grid codes, and the provision of

reactive power and voltage control from wind power plants. Key features: Offers an international perspective on integrating a high penetration of wind power into the power system, from basic network interconnection to industry deregulation; Outlines the methodology and results of European and North American large-scale grid integration studies; Extensive practical experience from wind power and power system experts and transmission systems operators in Germany, Denmark, Spain, UK, Ireland, USA, China and New Zealand; Presents various wind turbine designs from the electrical perspective and models for their simulation, and discusses industry standards and world-wide grid codes, along with power quality issues; Considers concepts to increase penetration of wind power in power systems, from wind turbine, power plant and power system redesign to smart grid and storage solutions. Carefully edited for a highly coherent structure, this work remains an essential reference for power system engineers, transmission and distribution network operator and planner, wind turbine designers, wind project developers and wind energy consultants dealing with the integration of wind power into the distribution or transmission network. Up-to-date and comprehensive, it is also useful for graduate students, researchers, regulation authorities, and policy makers who work in the area of wind power and need to understand the relevant power system integration issues.

Introduction to Probability Demos Medical Publishing

Ten years have passed since this reference's last edition - making *Engineering Properties of Foods, Third Edition* the must-have resource for those interested in food properties and their variations. Defined are food properties and the necessary theoretical background for each. Also evaluated is the usefulness of each property i

Wind Power in Power Systems John Wiley & Sons

The guidance provided focuses on individual skills of emplacing and removing mines, team and squad tasks, platoon and company organization and panning, and battalion/task force organization and coordination for successful obstacle reduction and breaching operations.

Biodentine™ Cengage Learning

This book constitutes the refereed proceedings of the Second International Conference on Smart Trends in Information Technology and Computer Communications, SmartCom 2017, held in Pune, India, in August 2017. The 38 revised papers presented were carefully reviewed and selected from 310 submissions. The papers address issues on smart and secure systems; smart and service computing; smart data and IT innovations.

WebSphere Adapter Development Springer

This book is a comprehensive guide to Biodentine™, an innovative biocompatible and bioactive material based on pure tricalcium silicate that can permanently replace dentin and can also serve as a temporary enamel substitute. Although Biodentine™ has been widely used across the world for the past decade, this is the first book to be devoted to its properties, interactions with the soft and hard tissues, and its multiple clinical applications. The coverage encompasses applications in primary and permanent teeth, in specialties as diverse as restorative dentistry, endodontics, paediatric dentistry, dental traumatology, and prosthetic dentistry. Biodentine™ application both in vital pulp therapy and endodontic procedures is illustrated and clinical step by step protocols are provided. The book provides a detailed update on Biodentine™ use to preserve the pulp vitality in direct/indirect pulp capping, pulpotomy and irreversible pulpitis treatment. It also details Biodentine™ use for non-vital teeth treatment in indications such as root/furcation perforation repair, apexification as well as in regenerative endodontic procedures. Biodentine™: Properties and Clinical Applications will be a rich source of guidance and information for all dentists as well as dental students and academics.

Losing Work, Moving on Springer

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.

Advanced Planning and Scheduling in Manufacturing and Supply Chains CRC Press

The International Accounting and Finance Handbook is an excellent reference for assisting those with interests or responsibilities concerning the international dimensions of accounting, reporting, and control and finance. It provides the tools for managers who need to come to grips with the differences in accounting principles, financial disclosure and auditing practices in the worldwide finance and accounting arena. * Provides an overview of international accounting and finance issues * Contributors are from Big-5 firms, top legal and finance firms, and well-known academics * Author is a leading academic expert in international accounting and finance with a great deal of practical consulting experience * Shows important trends in international finance and accounting * Provides practical examples and case studies

Climate Change-Resilient Agriculture and Agroforestry John Wiley & Sons

With contributions by numerous experts

Combinatorics of Coxeter Groups Springer Science & Business Media

This book is a printed edition of the Special Issue "Thermodynamics and Statistical Mechanics of Small Systems" that was published in Entropy *U S Navy Diving Manual* Springer

An intuitive, yet precise introduction to probability theory, stochastic processes, statistical inference, and probabilistic models used in science, engineering, economics, and related fields. This is the currently used textbook for an introductory probability course at the Massachusetts Institute of Technology, attended by a large number of undergraduate and graduate students, and for a leading online class on the subject. The book covers the fundamentals of probability theory (probabilistic models, discrete and continuous random variables, multiple random variables, and limit theorems), which are typically part of a first course on the subject. It also contains a number of more advanced topics, including transforms, sums of random variables, a fairly detailed introduction to Bernoulli, Poisson, and Markov processes, Bayesian inference, and an introduction to classical statistics. The book strikes a balance between simplicity in exposition and sophistication in analytical reasoning. Some of the more mathematically rigorous analysis is explained intuitively in the main text, and then developed in detail (at the level of advanced calculus) in the numerous solved theoretical problems.

Materials and Processes World Scientific Publishing Company

Thoracic Malignancies: Thoracic Malignancies is the first title in Radiation Medicine Rounds. These tumors take more lives than any others and they are among the most preventable of tumors. Thus it is crucial for the practitioner to be up-to-date on the latest insights regarding their management. Thoracic Malignancies addresses the multi-disciplinary nature of the care of these tumors. There is representation from radiation oncology, medical oncology, and surgery ensuring a well-rounded summarization of current practice. Included are chapters on lung cancer, esophageal cancer, and thymomas providing coverage of the vast majority of thoracic tumors. The multi-disciplinary nature of the articles provides readers with an up-to-date summary and a well-rounded review regarding these tumors and their care. Expert authors provide reviews and assessments of the most recent data and its implications for current clinical practice, along with insights into emerging new trends of importance for the near future. About the Series Radiation Medicine Rounds is an invited review publication providing a thorough analysis of new scientific, technologic, and clinical advances in all areas of radiation

medicine. There is an emphasis throughout on multidisciplinary approaches to the specialty, as well as on quality and outcomes analysis. Published three times a year Radiation Medicine Rounds provides authoritative, thorough assessments of a wide range of hot topics and emerging new data for the entire specialty of radiation medicine. Features of Radiation Medicine Rounds include: Editorial board of nationally recognized experts across the spectrum of radiation medicine In-depth, up-to-date expert reviews and analysis of major new developments in all areas of Radiation Medicine Issues edited by an authority in specific subject area Focuses on major topics in Radiation Medicine with in-depth articles covering advances in radiation science radiation medicine technology, radiation medicine practice, and assessment of recent quality and outcomes studies Emphasizes multidisciplinary approaches to research and practice **Smart Trends in Information Technology and Computer Communications** Springer

A visual, intuitive introduction in the form of a tour with side-quests, using direct probabilistic insight rather than technical tools.