Siemens Gigaset Al140 User Guide

The purpose of this book is to provide engineers and researchers in both the wind power industry and energy research community with comprehensive, up-to-date, and advanced design techniques and practical approaches. The topics addressed in this book involve the major concerns in the wind power generation and wind turbine design.

Computational Anatomical Animal Models: Methodological developments and research applications provides a comprehensive review of the history and technologies used for the development of computational small animal models with a focus on their application in preclinical imaging and experimental radiation therapy, as well as non-ionizing and ionizing radiation dosimetry calculations. It also provides an overview of the overall process involved in the design of these models, including the fundamental elements used for the construction of different types of computational models, the identification of original anatomical data, the simulation tools used for solving various computational problems and the applications of computational animal models in preclinical research. Part of IPEM-IOP Series in Physics and Engineering in Medicine and Biology.

The first comprehensive history of the Information Age... how we got there and where we are going The exchange of information is essential for both the organization of nature and the social life of mankind. Until recently, communication between people was more or less limited by geographic proximity. Today, thanks to ongoing innovations in telecommunications, we live in an Information Age where distance has ceased to be an obstacle to the sharing of ideas. The Worldwide History of Telecommunications is the first comprehensive history ever written on the subject, covering every aspect of telecommunications from a global perspective. In clear, easy-to-understand language, the author presents telecommunications as a uniquely human achievement, dependent on the contributions of many ingenious inventors, discoverers, physicists, and engineers over a period spanning more than two centuries. From the crude signaling methods employed in antiquity all the way to today's digital era, The Worldwide History of Telecommunications features complete and fascinating coverage of the groundbreaking innovations that have served to make telecommunications the largest industry on earth, including: Optical telegraphy Electrical telegraphy via wires and cables Telephony and telephone switching Radio transmission technologies Cryptography Coaxial and optical fiber networks Telex and telefax Multimedia applications Broad in scope, yet clear and logical in its presentation, this groundbreaking book will serve as an invaluable resource for anyone involved or merely curious about the ever evolving field of telecommunications. AAP-PSP 2003 Award Winner for excellence in the discipline of the "History of Science"

Presents the fundamentals and applications of nanofibrous materials and their structures to graduate students and researchers in materials science.

An Hour a Day

Computational Anatomical Animal Models

Introduction to Nanofiber Materials

Autism

Signal Corps troops

From Use Cases to Pattern-based Software Architectures

Innovation in Intelligent Management of Heritage Buildings

Computational Intelligence Assisted Design framework mobilises computational resources, makes use of multiple Computational Intelligence (CI) algorithms and reduces computational costs. This book provides examples of real-world applications of technology. Case studies have been used to show the integration of services, cloud, big data technology and space missions. It focuses on computational modelling of biological and natural intelligent systems, encompassing swarm intelligence, fuzzy systems, artificial neutral networks, artificial immune systems and evolutionary computation. This book provides readers with wide-scale information on CI paradigms and algorithms, inviting readers to implement and problem solve real-world, complex problems within the CI development framework. This implementation framework will enable readers to tackle new problems without difficulty through a few tested MATLAB source codes "Designing Software Product Lines with UML is well-written, informative, and addresses a very important topic. It is a valuable contribution to the literature in this area, and offers practical guidance for software architects and engineers." --Alan Brown Distinguished Engineer, Rational Software, IBM Software Group "Gomaa''s process and UML extensions allow development teams to focus on feature-oriented development and provide a basis for improving the level of reuse across multiple software development efforts. This book will be valuable to any software development professional who needs to manage across projects and wants to focus on creating software that is consistent, reusable, and modular in nature." --Jeffrey S Hammond Group Marketing Manager, Rational Software, IBM Software Group "This book brings together a good range of concepts for understanding software product lines and provides an organized method for developing product lines using object-oriented techniques with the UML. Once again, Hassan has done an excellent job in balancing the needs of both experienced and novice software engineers." --Robert G. Pettit IV, Ph.D. Adjunct Professor of Software Engineering, George Mason University "This breakthrough book provides a comprehensive step-by-step approach on how to develop software product lines, which is of great strategic benefit to industry. The development of software product lines enables significant reuse of software architectures. Practitioners will benefit from the well-defined PLUS process and rich case studies." --Hurley V. Blankenship II Program Manager,

Justice and Public Safety, Science Applications International Corporation "The Product Line UML based Software engineering (PLUS) is leading edge. With the author''s wide experience and deep knowledge, PLUS is well harmonized with architectural and design pattern technologies." --Michael Shin Assistant Professor, Texas Tech University Long a standard practice in traditional manufacturing, the concept of product lines is quickly earning recognition in the software industry. A software product line is a family of systems that shares a common set of core technical assets with preplanned extensions and variations to address the needs of specific customers or market segments. When skillfully implemented, a product line strategy can yield enormous gains in productivity, quality, and time-to-market. Studies indicate that if three or more systems with a degree of common functionality are to be developed, a product-line approach is significantly more cost-effective. To model and design families of systems, the analysis and design concepts for single product systems need to be extended to support product lines. Designing Software Product Lines with UML shows how to employ the latest version of the industry-standard Unified Modeling Language (UML 2.0) to reuse software requirements and architectures rather than starting the development of each new system from scratch. Through real-world case studies, the book illustrates the fundamental concepts and technologies used in the design and implementation of software product lines. This book describes a new UML-based software design method for product lines called PLUS (Product Line UML-based Software engineering). PLUS provides a set of concepts and techniques to extend UML-based design methods and processes for single systems in a new dimension to address software product lines. Using PLUS, the objective is to explicitly model the commonality and variability in a software product line. Hassan Gomaa explores how each of the UML modeling views--use case, static, state machine, and interaction modeling--can be extended to address software product families. He also discusses how software architectural patterns can be used to develop a reusable component-based architecture for a product line and how to express this architecture as a UML platform-independent model that can then be mapped to a platform-specific model. Key topics include: Software product line engineering process, which extends the Unified Development Software Process to address software product lines Use case modeling, including modeling the common and variable functionality of a product line Incorporating feature modeling into UML for modeling common, optional, and alternative product line features Static modeling, including modeling the boundary of the product line and information-intensive entity classes Dynamic modeling, including using interaction modeling to address use-case variability State machines for modeling state-dependent variability Modeling class variability using inheritance and parameterization Software architectural patterns for product lines Component-based distributed design using the new UML 2.0 capability for modeling components, connectors, ports, and provided and required interfaces Detailed case studies giving a step-by-step solution to real-world product line problems Designing Software Product Lines with UML is an invaluable resource for all designers and developers in this growing field. The information, technology, and case studies presented here show how to harness the promise of software product lines and the practicality of the UML to take software design, quality, and efficiency to the next level. An enhanced online index allows readers to quickly and easily search the entire text for specific topics.

The improved survival of very preterm and very low birth weight infants in recent decades has been associated with an increase in the prevalence of physical and neurodevelopmental problems. Attention is increasingly being focused on the quality of life of survivors, who are at greater risk of brain damage and consequent neurological disorders, and neuropsychological and behavioural impairments. In this volume, leading experts present a comprehensive and up-to-date perspective on research in various aspects of the long-term consequences of very preterm birth. As well as extending existing knowledge of the neurodevelopmental sequelae following very preterm birth, a shared aim of this burgeoning body of research is to identify the mechanisms underlying variations in outcome, and thus recognise subgroups of children who are at increased risk of neurodevelopmental problems, for whom appropriate intervention strategies can be devised. Pediatricians, neurologists, psychiatrists and psychologists will all find this to be essential reading.

The Signal CorpsThe Emergency, to December 1941
Pem Fuel Cells
Smart Technologies for Energy and Environmental Sustainability
Aviation Radio
Neurodevelopmental Outcomes of Preterm Birth
The History of Medical Informatics in the United States
Clinical Applications of Mass Spectrometry in Biomolecular Analysis
Creation and Curation of Comprehensive Knowledge Bases

The Dutch Academy Football Coaching (U10-11) book contains a detailed outline of the Dutch training methodology for this age group. Topics include the basic principles, the age-specific characteristics, coaching methods, match days, training sessions, technical practices, moves to beat, positional games and formation specific small sided games. This book contains 66 practices as used in top academies in the Netherlands. There are technical and tactical practices for coaches at youth level wanting to develop their team to world leading, Dutch academy standards. - Henk Mariman - Former Club Brugge Academy Director and AFC - Ajax Assistant Academy Director - Han Berger - Chairman of the Dutch Professional Coaches (CBV) - Louis Coolen - Former Zenit St. Petersburg Academy Director

Intensity modulated radiation therapy (IMRT) has become standard of care for most cancer sites that are managed by radiation therapy. This book documents the evolution of this technology over 35 years to the current level of volumetric arc modulated therapy (VMAT). It covers every aspect of this radiation treatment technology, including the fundamentals of IMRT/VMAT, basic principles and advanced processes for implementation. The physics of IMRT is followed by the clinical application in major disease sites such as central nervous system, head and neck, breast, lung, prostate and cervix. It also provides updated references on each component of IMRT/VMAT. This book is written by leading experts in the field with extensive clinical experience in the practice and implementation of this technology. Key Features ?Provides comprehensive coverage of IMRT for radiation therapy students, dosimetrists, physicists, medical residents and radiation professionals Includes up-to-date descriptions of current instrumentation and practises Diagrams and images are included throughout to illustrate fundamental concepts and aid understanding Provides extensive references for further reading

ISOEN addresses research in the fields of gas sensors and artificial olfactory systems. In this edition we broadened the participation

spectrum to all kinds of analytical instrumentation for odor measurement and to biological olfaction. We also had a strong involvement in industry. The audience comprises materials scientists, chemists, physicists, engineers, biologists, computer scientists, and application specialists (e.g. food, medical, environmental, security).

Biometric recognition is one of the most widely studied problems in computer science. The use of biometrics techniques, such as face, fingerprints, iris and ears is a solution for obtaining a secure personal identification. However, the "old" biometrics identification techniques are out of date. This goal of this book is to provide the reader with the most up to date research performed in biometric recognition and descript some novel methods of biometrics, emphasis on the state of the art skills. The book consists of 15 chapters, each focusing on a most up to date issue. The chapters are divided into five sections- fingerprint recognition, face recognition, iris recognition, other biometrics and biometrics security. The book was reviewed by editors Dr. Jucheng Yang and Dr. Loris Nanni. We deeply appreciate the efforts of our guest editors: Dr. Girija Chetty, Dr. Norman Poh, Dr. Jianjiang Feng, Dr. Dongsun Park and Dr. Sook Yoon, as well as a number of anonymous reviewers

Ship Automation

Realism about Causality in Philosophy and Social Science

Wind Energy in the Built Environment

Methodological Developments and Research Applications

Theory and Practice

Revitalizing Causality

Quality and Competitiveness

As the application of smart technologies for monitoring environmental activities becomes more widespread, there is a growing demand for solutions that can help analyze the risk factors and impacts on the environment by focusing on energy consumption, storage, and management. This book is designed to serve as a knowledge-sharing platform, focusing on the emerging models, architectures, and algorithms being developed for smart computational technologies that can lead to efficient energy conservation and environmental sustainability.

This volume provides stepwise instructions for the analysis of numerous clinically important analytes by mass spectrometry. Mass spectrometry offers clinical laboratory scientists a number of advantages including increased sensitivity and specificity, multiple component analysis, and no need for specialized reagents. The techniques described are a must for the measurement of many clinically relevant analytes in the fields of drug analysis, endocrinology, and inborn errors of metabolism. Each chapter provides a brief introduction about a specified analyte, followed by detailed instructions on the analytical protocol. Written in the highly successful Methods in Molecular Biology series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Cutting edge and practical, Clinical Applications of Mass Spectrometry in Biomolecular Analysis: Methods and Protocols is a great resource for clinical laboratory scientists who are already using or thinking of bringing mass spectrometry to their laboratories.

This is a meticulously detailed chronological record of significant events in the history of medical informatics and their impact on direct patient care and clinical research, offering a representative sampling of published contributions to the field. The History of Medical Informatics in the United States has been restructured within this new edition, reflecting the transformation medical informatics has undergone in the years since 1990. The systems that were once exclusively institutionally driven – hospital, multihospital, and outpatient information systems – are today joined by systems that are driven by clinical subspecialties, nursing, pathology, clinical laboratory, pharmacy, imaging, and more. At the core is the person – not the clinician, not the institution – whose health all these systems are designed to serve. A group of world-renowned authors have joined forces with Dr Marion Ball to bring Dr Collen's incredible work to press. These recognized leaders in medical informatics, many of whom are recipients of the Morris F. Collen Award in Medical Informatics and were friends of or mentored by Dr Collen, carefully reviewed, editing and updating his draft chapters. This has resulted in the most thorough history of the subject imaginable, and also provides readers with a roadmap for the subject well into later in the century.

The book presents a broad overview of emerging smart grid technologies and communication systems, offering a helpful guide for future research in the field of electrical engineering and communication engineering. It explores recent advances in several computing technologies and their performance evaluation, and addresses a wide range of topics, such as the essentials of smart grids for fifth generation (5G) communication systems. It also elaborates the role of emerging communication systems such as 5G, internet of things (IoT), IEEE 802.15.4 and cognitive radio networks in smart grids. The book includes detailed surveys and case studies on current trends in smart grid systems and communications for smart metering and monitoring, smart grid energy storage systems, modulations and waveforms for 5G networks. As such, it will be of interest to practitioners and researchers in the field of smart grid and communication infrastructures alike.

Cliff Richard

YouTube and Video Marketing

Energy Sustainability Through Green Energy

Heterogeneous Computing Architectures

The Bachelor Boy

A Collection of Innovative Research Case-studies that are Reworking the Way We Look at Industry

4.0 Thanks to Artificial Intelligence

A Clinical Overview

Fully updated with new information, including the latest changesto YouTube! If you're a marketer, consultant, or small business owner, thisis the guide you need to understand video marketing tactics,develop a strategy, implement the campaign, and measure results.You'll find extensive coverage of keyword strategies, tips onoptimizing your video, distribution and promotion tactics, YouTubeadvertising opportunities, and crucial metrics and analysis. Avoiderrors, create a dynamite campaign, and break it all down inachievable tasks with this practical, hour-a-day, do-it-yourselfguide. Shows you how to successfully develop, implement, and measure asuccessful video marketing strategy Written in the popular An Hour a Day format, which breaksintimidating topics down to easily approachable tasks Thoroughly updated with the latest YouTube functionality,helpful new case studies, the latest marketing insights, andmore Covers optimization strategies, distribution techniques,community promotion tactics, and more Explores the crucial keyword development phase and bestpractices for creating and maintaining a presence on YouTube viabrand channel development and customization Shows you how to optimize video for YouTube and search enginevisibility Give your organization a visible, vital, video presence onlinewith YouTube and Video Marketing: An Hour a Day, SecondEdition.

This project-oriented facilities design and material handling reference explores the techniques and procedures for developing an efficient facility layout, and introduces some of the state-of-the-art tools involved, such as computer simulation. A "how-to," systematic, and methodical approach leads readers through the collection, analysis and development of information to produce a quality functional plant layout. Lean manufacturing; work cells and group technology; time standards; the concepts behind calculating machine and personnel requirements, balancing assembly lines, and leveling workloads in manufacturing cells; automatic identification and data collection; and ergonomics. For facilities planners, plant layout, and industrial engineer professionals who are involved in facilities planning and design.

Designed to teach engineers to think statistically so that data can be collected and used intelligently in solving real problems, this text is intended for calculus-based, one-semester introduction to engineering statistics courses. Although traditional topics are covered, this edition takes a modern, data-oriented, problem-solving, process-improvement view of engineering statistics. The emphasis is on collecting good data through sample surveys and experiments and on applying it to real problems.

This cutting edge collection of new and previously published articles by philosophers and social scientists addresses just what it means to invoke causal mechanisms, or powers, in the context of offering a causal explanation. A unique collection, it offers the reader various disciplinary and inter-disciplinary divides, helping to stake out a new, neo-Aristotelian position within contemporary debate.

Proceedings of the 13th International Symposium on Olfaction and Electronic Nose

Wind Power Generation and Wind Turbine Design

Methods and Protocols

State of the art in Biometrics

Dutch Academy Football Coaching (U10-11) - Technical and Tactical Practices from Top Dutch Coaches

Artificial Intelligence in Industry 4.0

William Croone, on the Reason of the Movement of the Muscles

This book shares the latest developments and advances in materials and processes involved in the energy generation, transmission, distribution and storage. Chapters are written by researchers in the energy and materials field. Topics include, but are not limited to, energy from biomass, bio-gas and bio-fuels; solar, wind, geothermal, hydro power, wave energy; energy-transmission, distribution and storage; energy-efficient lighting buildings; energy sustainability; hydrogen and fuel cells; energy policy for new and renewable energy technologies and education for sustainable energy development.

A thorough introduction to the Lightweight Directory Access Protocol (LDAP) technology. The first part of this book offers a detailed overview of the real world applications of the technology. This is followed by an explanation of the technical details of LDAP and a step-by-step demonstration of how to implement an LDAP directory. The book's structure is designed to span the project manager and the specialist IT team and provide each with an understanding of the other's position. Proposes a methodology to help you implement this technology Includes a detailed case study: a global enterprise directory for an extranet Covers all compatible LDAP tools and explores the development of LDAP applications

This book surveys fundamental concepts and practical methods for creating and curating large knowledge bases. Nanotechnology is one of the fastest growing areas in science and engineering. For synthesis of nanoparticles and nanocomposites with improved characteristics, radiation based technology using X rays, beams and ion beams is the key to a variety of different approaches to micropatterning. Radiation processed nanomaterials with high abrasion and high scratch resistance or biomedical usage (controlled release drug delivery systems) are of increasing importance. The ability to fabricate structures with nanometric precision is fundamental to any exploitation of nanotechnology. This publication covers selected developments in nanotechnology and on this basis presents the potential role of radiation applications in the field. It is the first publication on radiation applications in nanotechnology and therefore will play an important role in stimulating further research on the subject.--Publisher description.

Olfaction and Electronic Nose

A Practical Guide to CT Simulation

The Linear Reactivity Model for Nuclear Fuel Management

The Emergency, to December 1941

LDAP Directories

Concentrator Effects of Buildings

The Linear Reactivity Model (LRM) is a simple nuclear fuel management model that comes with a diskette containing three programs. Consisting of a collection of algorithms and methods, the LRM describes complex core behavior, but it is simpler than the complex programs developed for design calculations. This makes the LRM particularly useful as a teaching tool to explain the basic principles of nuclear fuel management. The LRM mainly focuses on the pressurized water reactor, but it is also directly applicable to the boiling water reactor. Application of the LRM to the CANDU reactor is also covered.

Cliff Richard has been Britain's longest surviving and most consistent hit music maker. Starting his career as a rock 'n' roll threat to decent, upstanding citizens, he is now a friend to Royalty and prime ministers, a Knight, and a holder of the OBE. This book tells his story chronologically,

through the voices of his friends, family, and colleagues including songwriters, film directors, managers, and agents—like listening in on a dinner party attended by most of the key people in his career. The stories reveal Cliff as seen by those closest to him and, in contrast to the many official publications, this book does not just include the flattering stories. The author's probing questions have elicited extraordinary memories and observations, previously unheard by the public. Heavily illustrated with rare and interesting photographs of Cliff at work and play, this unique oral history will stand as a lasting testament to one of the most glorious careers in British show business.

Heterogeneous Computing Architectures: Challenges and Vision provides an updated vision of the state-of-the-art of heterogeneous computing systems, covering all the aspects related to their design: from the architecture and programming models to hardware/software integration and orchestration to real-time and security requirements. The transitions from multicore processors, GPU computing, and Cloud computing are not separate trends, but aspects of a single trend-mainstream; computers from desktop to smartphones are being permanently transformed into heterogeneous supercomputer clusters. The reader will get an organic perspective of modern heterogeneous systems and their future evolution.

Management of historical buildings00Some of the contents:01. Foreword02. Acknowledgement03. COST Action TD1406 ? i2MHB03.1. Introduction03.1.1. Cultural heritage management03.1.2. Special consideration on Cultural Heritage Buildings03.2. Initial network of proponents03.3. Action?s objectives03.4. Organizational structure03.5. Action network and instruments03.6. Conclusions04. Heritage building / site use cases? STSMs: Early Stage Researchers? perspective04.1. Introduction04.2. General STSM objectives04.3. Background of the HB/site04.4. Stakeholders and public04.5. Trial of evidence04.6. Dilemmas04.7. New challenges04.8. Conclusions05. Good practices in Heritage Buildings? Management05.1. Introduction05.2. Approach to a holistic management of Cultural Heritage05.2.1. Related works05.3. Holistic Cultural Heritage management framework05.4. Best practices on Heritage Buildings management05.5. Database on heritage management practices05.6. Heritage Building use cases analysis05.7. Conclusions06. Knowledge based IT platform for Heritage Buildings.

Proceedings of a Consultants Meeting Held in Bologna, Italy, 22-25 March 2004

In Industrial Revolution 4.0

The Eighth Colour of the Rainbow : Learn to Speak Autistic

Emerging Applications of Radiation in Nanotechnology

THEIR LAST PATH

Smart Grids and Their Communication Systems

Intensity Modulated Radiation Therapy

Designing buildings that maximize wind harvest and drive a set of turbines that provide power for buildings is the architectural concept presented in this scientific analysis. The practicalities presented in this design concept will interest engineers and architects, while the possibilities of wind power being used at a domestic level will delight proponents of renewable energy.

Stone shows how shared meanings can be learnt and expressed between autistic and non-autistic individuals, though they experience different perceptions of reality. She presents ways of creating autistic-friendly environments, modifying traditional responses to autistic behaviour and using literal learning, providing useful examples and exercises.

This book is intended to help management and other interested parties such as engineers, to understand the state of the art when it comes to the intersection between AI and Industry 4.0 and get them to realise the huge possibilities which can be unleashed by the intersection of these two fields. We have heard a lot about Industry 4.0, but most of the time, it focuses mainly on automation. In this book, the authors are going a step further by exploring advanced applications of Artificial Intelligence (AI) techniques, ranging from the use of deep learning algorithms in order to make predictions, up to an implementation of a full-blown Digital Triplet system. The scope of the book is to showcase what is currently brewing in the labs with the hope of migrating these technologies towards the factory floors. Chairpersons and CEOs must read these papers if they want to stay at the forefront of the game, ahead of their competition, while also saving huge sums of money in the process.

This new edition of Dr. Barbir's groundbreaking book still lays the groundwork for engineers, technicians and students better than any other resource, covering fundamentals of design, electrochemistry, heat and mass transport, as well as providing the context of system design and applications. Yet it now also provides invaluable information on the latest advances in modeling, diagnostics, materials, and components, along with an updated chapter on the evolving applications areas wherein PEM cells are being deployed."--pub. desc.

Computational Intelligence Assisted Design

Probability and Statistics for Engineers

The Worldwide History of Telecommunications

The Signal Corps

Manufacturing Facilities Design and Material Handling

Machine Knowledge

From Childhood to Adult Life

U.S. Army In World War II, The Technical Services.

Management

Challenges and Vision

Barriers to Modal Shift

For Marine Engineers and ETOs

Designing Software Product Lines with UML