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Hydrogen Technology

Aline Léon 2008-07-18 Aline Leon' In the last years, public attention was increasingly shifted by the media and world governments to the concepts of saving energy, reducing pollution, protecting the - vironment, and developing long-term energy supply solutions. In parallel, research funding relating to alternative fuels

and energy carriers is increasing on both - tional and international levels. Why has future energy supply become such a matter of concern? The reasons are the problems created by the world's current energy supply s- tem which is mainly based on fossil fuels. In fact, the energystored in hydrocarb- based solid, liquid, and gaseous fuels was, is, and will be widely consumed for

internal combustion engine-based transportation, for electricity and heat generation in residential and industrial sectors, and for the production of fertilizers in agriculture, as it is convenient, abundant, and cheap. However, such a widespread use of fossil fuels by a constantly growing world population (from 2.3 billion in 1939 to 6.5 billion in 2006) gives rise to the two problems of oil supply and environmental degradation. The problem related to oil supply is caused by the fact that fossil fuels are not renewable primary energy sources: This means that since the first barrel of petroleum has been pumped out from the ground, we have been exhausting a heritage given by nature.

Computer Education for Teachers Vicki F. Sharp 2008-11-03 Teachers who want an up-to-date, readable, and concise introduction to computers continue to turn to

Computer Education for Teachers. The new edition places more emphasis on multimedia and the Internet, covering topics such as digital photography, iPods in the classroom, the Internet, and distance learning. A robust Web site also accompanies this streamlined book. It contains video tutorials on topics such as creating a digital portfolio and making a Podcast. These tutorials are from 1 to 3 minutes in duration and are step-by-step projects. Teachers who are unfamiliar with the use of the computer in the classroom will find this to be the perfect resource.

Time Travel Short Stories
2018-12-15 New authors and collections. From H.G.Wells, Jules Verne and Edward Page Mitchell stories of travelling back and forth in time have brought us ancient and future civilisations, terrifying visions and cautionary tales. In the wake of our successful Gothic and

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Fantasy deluxe edition short story compilations, Ghosts, Horror, Science Fiction, Murder Mayhem and Crime & Mystery, we bring you a constellation of tales, new and old, in a dazzling mix of classic and brand new writing with authors from around the world. Classic authors include: F. Anstey, Edward Bellamy, John Buchan, L. Maria Child, Charles Dickens, Rudyard Kipling, Jack London, Harold Steele Mackaye, Edward Page Mitchell, William Morris, Philip Francis Nowlan, Edgar Allan Poe, Mark Twain, H.G. Wells.

Yii2 Application Development Cookbook

Andrew Bogdanov
2016-11-09 Discover 100 useful recipes that will bring the best out of the Yii2 framework and be on the bleeding edge of web development today About This Book Learn how to use Yii2 efficiently through clear examples and core features, and see how to use tests, create reusable code

snippets, core widgets, deployment, and more This book provides you with a wide space for practice approaches and helps you to learn about the new Yii2 framework. Understand the difference between the Yii 1.x.x versions using useful examples from real web applications Who This Book Is For This book is for developers with good PHP5 knowledge and MVC-frameworks who have tried to develop applications using the Yii 1.x.x version. This book will very useful for all those who would like to try Yii2, or those who are afraid to move from Yii 1.x.x. to Yii2. If you have still not tried Yii2, this book is definitely for you! What You Will Learn See the new version of the Yii2 framework and application development practices Write your applications more efficiently using shortcuts, Yii's core functionality, and the best practices in Web 2.0 Get data from a database, and deal with

Active Record, migrations, widgets, and core features Easily update your skills from the previous version of the framework Explore how to use Yii with different JavaScript frameworks and libraries such as WebSockets, Angular, Ember, Backbone and React Learn how to keep your application secure according to the general web application security principle "filter input, escape output. Write RESTfull Web Services using Yii2 and built-in features Correctly install and use official extensions in your projects Effectively create and implement your own Yii extension, and also ensure your extension is reusable and useful for the community In Detail Yii is a free, open source web application development framework written in PHP5 that promotes clean DRY design and encourages rapid development. It works to streamline your application development time and helps to ensure an

extremely efficient, extensible, and maintainable end product. Being extremely performance optimized, Yii is a perfect choice for any size project. However, it has been built with sophisticated, enterprise applications in mind. You have full control over the configuration from head-to-toe (presentation-to-persistence) to conform to your enterprise development guidelines. It comes packaged with tools to help test and debug your application, and has clear and comprehensive documentation. This book is a collection of Yii2 recipes. Each recipe is represented as a full and independent item, which showcases solutions from real web-applications. So you can easily reproduce them in your environment and learn Yii2 fast and without tears. All recipes are explained with step-by-step code examples and clear screenshots. Yii2 is like a

suit that looks great off the rack, but is also very easy to tailor to fit your needs. Virtually every component of the framework is extensible. This book will show how to use official extensions, extend any component, or write a new one. This book will help you create modern web applications quickly, and make sure they perform well using examples and business logic from real life. You will deal with the Yii command line, migrations, and assets. You will learn about role-based access, security, and deployment. We'll show you how to easily get started, configure your environment, and be ready to write web applications efficiently and quickly. Style and approach The chapters of this book are independent and offer a practical approach to Yii development. You can start reading from the chapter you need most, be it Ajax and jQuery, RESTful Web Services, Database, Active

Record, or Official Extensions

Proceedings of International Conference on Internet Computing and Information Communications Swamidoss Sathiakumar 2013-09-24

The book presents high quality research papers presented by experts in the International Conference on Internet Computing and Information Communications 2012, organized by ICICIC Global organizing committee (on behalf of The CARD Atlanta, Georgia, CREATE Conferences Inc). The objective of this book is to present the latest work done in the field of Internet computing by researchers and industrial professionals across the globe. A step to reduce the research divide between developed and under developed countries.

Wind Energy for Power Generation K. R. Rao

2019-10-17 This far-reaching resource covers a full spectrum of multi-faceted considerations critical for energy

generation decision makers considering the adoption or expansion of wind power facilities. It contextualizes pivotal technical information within the real complexities of economic, environmental, practical and socio-economic parameters. This matrix of coverage includes case studies and analysis from developed and developing regions, including North America and Europe, Asia, Latin America, the Middle-East and Africa. Crucial issues to power generation professionals and utilities such as: capacity credits; fuel saving; intermittency; penetration limits; relative cost of electricity by generation source; growth and cost trends; incentives; and wind integration issues are addressed. Other economic issues succinctly discussed inform financial commitment to a project, including investment matrices, strategies for economic evaluations, econometrics of wind energy, cost

comparisons of various investment strategies, and cost comparisons with other energy sources. Due to its encompassing scope, this reference will be of distinct interest to practicing engineers, policy and decision makers, project planners, investors and students working in the area of wind energy for power generation.

Code Generation in

Action Jack Herrington 2003

Describes how code generators are used in user interfaces, remote procedure access, and database access, and shows how to use programs to write other programs.

Microgrids and Local Energy Systems Nick Jenkins

2021-12-15 This book addresses important topical questions of microgrids and local energy systems. It begins with an investigation of the electrical protection of microgrids followed by a study of the power converters used and the utilization of multi-objective

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optimization for the selection of component ratings. Subsequent chapters address peer-to-peer energy trading in microgrids, local district heating and cooling systems, neighborhood generators used to supplement the utility electricity supplies in Iraq, and regulatory impediments to micro-wind generation in the United States.

Travesty Generator

Lillian-Yvonne Bertram
2019-12-15 Poetry. African & African American Studies. Like a ghost in the machine, TRAVESTY GENERATOR remixes programming codes and turns them to ruminate on the intersections of race and gender. Rhythmic, hypnotic, and percussive, the poems are iterative and suggest the infinite recursions of nano data. The poems pay homage to lives taken too soon, those of Trayvon Martin, Eric Garner, pulls heroes like Harriet Tubman into the present, and offers the wisdoms

spoken by Black mothers to their children. TRAVESTY GENERATOR reminds us that programming languages and computer codes are not neutral. But while oppressive algorithms abound, the poems hack their way into new connections and possibilities for Black life.

Handbook of Discrete and Combinatorial

Mathematics Kenneth H.

Rosen 2017-10-19

Handbook of Discrete and Combinatorial Mathematics provides a comprehensive reference volume for mathematicians, computer scientists, engineers, as well as students and reference librarians. The material is presented so that key information can be located and used quickly and easily. Each chapter includes a glossary. Individual topics are covered in sections and subsections within chapters, each of which is organized into clearly identifiable parts: definitions, facts, and examples. Examples are

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provided to illustrate some of the key definitions, facts, and algorithms. Some curious and entertaining facts and puzzles are also included. Readers will also find an extensive collection of biographies. This second edition is a major revision. It includes extensive additions and updates. Since the first edition appeared in 1999, many new discoveries have been made and new areas have grown in importance, which are covered in this edition.

Essential Computer and it Fundamentals for Engineering And S

N.B.Venkateswarlu 2012
Essential Computer and it Fundamentals for Engineering And S

Wind Energy Systems

John Dalsgaard Sørensen
2010-12-20 Large-scale wind power generation is one of the fastest developing sources of renewable energy and already makes a substantial contribution to power grids in many countries

worldwide. With technology maturing, the challenge is now to increase penetration, and optimise the design, construction and performance of wind energy systems. Fundamental issues of safety and reliability are paramount in this drive to increase capacity and efficiency. Wind energy systems: Optimising design and construction for safe and reliable operation provides a comprehensive review of the latest developments in the design, construction and operation of large-scale wind energy systems, including in offshore and other problematic environments. Part one provides detailed coverage of wind resource assessment and siting methods relevant to wind turbine and wind farm planning, as well as aeroelastics, aerodynamics, and fatigue loading that affect the safety and reliability of wind energy systems. This coverage is

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extended in part two, where the design and development of individual components is considered in depth, from wind turbine rotors to drive train and control systems, and on to tower design and construction. Part three explores operation and maintenance issues, such as reliability and maintainability strategies and condition monitoring systems, before discussing performance assessment and optimisation routes for wind energy systems in low wind speed environments and cold climates. Part four reviews offshore wind energy systems development, from the impact of environmental loads such as wind, waves and ice, to site specific construction and integrated wind farm planning, and of course the critical issues and strategies for offshore operation and maintenance. With its distinguished editors and international teams of contributors, *Wind energy systems* is a

standard reference for wind power engineers, technicians and manufacturers, as well as researchers and academics involved in this expanding field. Reviews the latest developments in the design, construction and operation of large-scale wind energy systems Offers detailed coverage of wind resource assessment and siting methods relevant to wind turbine and wind farm planning Explores operation and maintenance issues, such as reliability and maintainability strategies and condition monitoring systems

Understanding and Creating Digital Texts Richard Beach, Professor Emeritus of English Education, University of Minnesota
2014-10-16 This book provides activities and examples that use technological tools to help students learn how to create digital texts. This book also provides a basis for creating novel classroom activities

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that encourage students to define purpose and audience, make textual links, collaborate, gain new perspectives, and construct identities through writing. ies.

[Dragons in the Stacks: A Teen Librarian's Guide to Tabletop Role-Playing](#)

Steven A. Torres-Roman
2014-10-17 A one-stop, complete guide to tabletop role-playing games for novice librarians as well as seasoned players. • Discusses collection development, cataloging, and programs for teens • Supplies detailed reviews of scores of popular and less well-known role-playing games • Outlines a variety of affordable, effective programs for teens that involve role-playing tabletop games

The Rough Guide to MySpace Peter Buckley
2006 "From Bebo and Friendster to MySpace Music"--Cover.

Professional Wikis Mark S. Choate 2008 Provides

information on installing, using, managing, and extending a wiki using the MediaWiki.

Aspects of Computational Intelligence: Theory and Applications Ladislav

Madarász 2012-08-11 This volume covers the state-of-the-art of the research and development in various aspects of computational intelligence and gives some perspective directions of development. Except the traditional engineering areas that contain theoretical knowledge, applications, designs and projects, the book includes the area of use of computational intelligence in biomedical engineering. „Aspects of Computational Intelligence: Theory and Applications” is a compilation of carefully selected extended papers written on the basis of original contributions presented at the 15th IEEE International Conference on Intelligence Engineering Systems 2011, INES 2011 held at June 23.-26. 2011 in

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AquaCity Poprad, Slovakia.

Wave and Tidal Energy

Deborah Greaves

2018-03-28 A

comprehensive text covering all aspects of wave and tidal energy Wave and Tidal Energy provides a comprehensive and self-contained review of the developing marine renewable energy sector, drawing from the latest research and from the experience of device testing. The book has a twofold objective: to provide an overview of wave and tidal energy suitable for newcomers to the field and to serve as a reference text for advanced study and practice. Including detail on key issues such as resource characterisation, wave and tidal technology, power systems, numerical and physical modelling, environmental impact and policy. The book also includes an up-to-date review of developments worldwide and case studies of selected projects. Key

features: A comprehensive and self-contained text covering all aspects of the multidisciplinary fields of wave and tidal energy. Draws upon the latest research in wave and tidal energy and the experience of leading practitioners in numerical and laboratory modelling. Regional developments worldwide are reviewed and representative projects are presented as case studies. Wave and Tidal Energy is an invaluable resource to a wide range of readers, from engineering students to technical managers and policymakers to postgraduate students and researchers.

Power Electronics for Renewable and Distributed Energy Systems Sudipta Chakraborty 2013-06-12

While most books approach power electronics and renewable energy as two separate subjects, *Power Electronics for Renewable and Distributed Energy Systems* takes an integrative approach;

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discussing power electronic converters topologies, controls and integration that are specific to the renewable and distributed energy system applications. An overview of power electronic technologies is followed by the introduction of various renewable and distributed energy resources that includes photovoltaics, wind, small hydroelectric, fuel cells, microturbines and variable speed generation. Energy storage systems such as battery and fast response storage systems are discussed along with application-specific examples. After setting forth the fundamentals, the chapters focus on more complex topics such as modular power electronics, microgrids and smart grids for integrating renewable and distributed energy. Emerging topics such as advanced electric vehicles and distributed control paradigm for power system control are discussed in the last two chapters. With

contributions from subject matter experts, the diagrams and detailed examples provided in each chapter make Power Electronics for Renewable and Distributed Energy Systems a sourcebook for electrical engineers and consultants working to deploy various renewable and distributed energy systems and can serve as a comprehensive guide for the upper-level undergraduates and graduate students across the globe.

Agile Web Application Development with Yii1.1 and PHP5

Jeffrey Winesett
2010-08-11 Fast-track your Web application development by harnessing the power of the Yii PHP framework

Web Application Development with Yii and PHP

Jeffrey Winesett
2012-11-19 This is a step-by-step tutorial for developing web applications using Yii. This book follows the test-first, incremental, and iterative approach to

software development while developing a project task management application. If you are a PHP programmer with knowledge of object oriented programming and want to rapidly develop modern, sophisticated web applications, then this book is for you. No prior knowledge of Yii is required to read this book.

The Turn of Moore's Law from Space to Time Liming Xiu 2022-05-24 This book states that a space-induced crisis is recognized as the cause of trouble that Moore's Law is currently facing. The contemporary practice of this empirical law can be considered as happening within a space-dominant paradigm. An alternative of exploiting potential in the dimension of time is identified as an emerging paradigm in microelectronics. The new practice is termed a time-oriented paradigm. It is justified as the turn of Moore's Law from space to time. The resultant Time-

Moore strategy is envisioned as the next-generation enabler for continuing Moore's Law's pursuit of everhigher information processing power and efficiency. It also serves as the perpetuation of the spirit that Moore's law is nothing but a collective storied history of innovations. In the first part of this book, by following Thomas Kuhn's seminal work around the concepts of paradigm and scientific revolution, the argument for the Time-Moore strategy (Time-Moore: to use time more) and the paradigm shift from space to time is carried out heavily through philosophical persuasion rather than technical proof due to the difficult challenge of change-of-mindset. The second part of the book provides solid technical materials for supporting this transition from the old paradigm to the new one. In short, the goal of this book is to reevaluate the contemporary practice of

microelectronics, identify the cause of the current crisis, advocate a change-of-mindset to circumvent the crisis, and ultimately point out a new route for advancing. After achieving so many unprecedented accomplishments through several decades of relentless endeavor, it's time for the big ship of Moore's Law (i.e., the art of microelectronic system design) to make a turn.

Yii Framework

Application Workshop #1

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Application □□□□ Yii

Framework □□□□ 4 Workshop

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INTELEC 2004

Modeling and Analysis with Induction

Generators, Third Edition

M. Godoy Simões

2014-12-11 Now in its Third

Edition, Alternative Energy

Systems: Design and

Analysis with Induction

Generators has been

renamed Modeling and

Analysis with Induction

Generators to convey the book's primary objective—to present the fundamentals of and latest advances in the modeling and analysis of induction generators. New to the Third Edition Revised equations and mathematical modeling Addition of solved problems as well as suggested problems at the end of each chapter New modeling and simulation cases Mathematical modeling of the Magnus turbine to be used with induction generators Detailed comparison between the induction generators and their competitors Modeling and Analysis with Induction Generators, Third Edition aids in understanding the process of self-excitation, numerical analysis of stand-alone and multiple induction generators, requirements for optimized laboratory experimentation, application of modern vector control, optimization of power transference, use of doubly fed induction generators,

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computer-based simulations, and social and economic impacts.

Escaping Boredom in the Classroom

Madalina Armie 2022-01-27 Gamification is an entertaining, fun, and educational way to teach and learn English as a second or foreign language and escape boredom in the classroom. This volume presents the general premises of applying gamification to the learning experience and the advantages of implementing escape rooms, breakouts, and breakout boxes in the classroom. It also considers a wide range of practical proposals in varied subject areas, easily adaptable to any education level and perfect for the practice of lexical and grammatical content for students learning English.

Hibernate Tips Thorben Janssen 2018-01-09 When you use Hibernate in your projects, you quickly recognize that you need to do more than just add

@Entity annotations to your domain model classes. Real-world applications often require advanced mappings, complex queries, custom data types and caching. Hibernate can do all of that. You just have to know which annotations and APIs you need to use. Hibernate Tips - More than 70 solutions to common Hibernate problems shows you how to efficiently implement your persistence layer with Hibernate's basic and advanced features. Each Hibernate Tip consists of one or more code samples and an easy to follow step-by-step explanation. You can also download an example project with executable test cases for each Hibernate Tip. Throughout this book, you will get more than 70 ready-to-use solutions that show you how to: - Define standard mappings for basic attributes and entity associations. - Implement your own attribute mappings and support custom data

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types. - Use Hibernate's Java 8 support and other proprietary features. - Read data from the database with JPQL, Criteria API, and native SQL queries. - Call stored procedures and database functions. This book is for developers who are already working with Hibernate and who are looking for solutions for their current development tasks. It's not a book for beginners who are looking for extensive descriptions of Hibernate's general concepts. The tips are designed as self-contained recipes which provide a specific solution and can be accessed when needed. Most of them contain links to related tips which you can follow if you want to dive deeper into a topic or need a slightly different solution. There is no need to read the tips in a specific order. Feel free to read the book from cover to cover or to just pick the tips that help you in your current project.

Energy in Perspective Mark

Cronshaw 2021 This textbook provides broad coverage of energy supply and use. It discusses how energy is produced, transformed, delivered to end users, and consumed. The author discusses all of this at an undergraduate level, accessible to students of varying backgrounds. High-level and human-scale perspectives are included. As a high-level example, the book discusses the shares of global primary energy that are provided by oil, gas, coal, hydroelectricity, and renewables, as well as trends in energy consumption and supply over time. Human-scale examples will resonate with readers' every day experiences. The link between economic development and energy consumption is presented, which facilitates understanding of how global energy consumption growth is inevitable as economic development occurs.

Coverage includes separate

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chapters on the oil, natural gas, coal, and electricity sectors. Each of these provides high-level descriptions of the technology involved in the production of that type of energy as well as the processing and transportation that occurs to bring the energy to end users. The book discusses the technological implications of energy transitions such as increased use of renewables or changes in the use of nuclear energy using Germany and Japan as examples. It closes with a discussion of future energy use. Provides textbook coverage of a very wide range of topics on energy, at an introductory level; Uses recent and historical data to illustrate energy use and supply in various countries; Provides examples based on the author's and reader's experiences with energy; Offers an excellent introduction to the technical aspects of oil, gas, coal,

renewables, electricity, and petrochemicals; Uses exercises at the end of each chapter to reinforce concepts.

Brain-powered Science

Thomas O'Brien 2010

Intelligent Information

Systems and Knowledge

Management for Energy:

Applications for Decision

Support, Usage, and

Environmental Protection

Metaxiotis, Kostas

2009-08-31 "This book

analyzes the need for a holistic approach for the construction and engineering of cities and societies"--Provided by publisher.

Foundations of Information and Knowledge Systems

Ivan Varzinczak 2022-07-09

This book constitutes the refereed proceedings of the 12th International Symposium on Foundations of Information and Knowledge Systems, FoIKS 2022, held in Helsinki, Finland, in June 2022. The 13 full papers presented were carefully reviewed and

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selected from 21 submissions. The papers address various topics such as information and knowledge systems, including submissions that apply ideas, theories or methods from specific disciplines to information and knowledge systems. Examples of such disciplines are discrete mathematics, logic and algebra, model theory, databases, information theory, complexity theory, algorithmics and computation, statistics and optimization.

Advanced PHP

Programming George Schlossnagle 2004-02-20

This is the eBook version of the printed book. If the print book includes a CD-ROM, this content is not included within the eBook version. Over the past three years PHP has evolved from being a niche language used to add dynamic functionality to small sites to a powerful tool making strong inroads into large-scale, business-critical

Web systems. The rapid maturation of PHP has created a skeptical population of users from more traditional "enterprise" languages who question the readiness and ability of PHP to scale, as well as a large population of PHP developers without formal computer science backgrounds who have learned through the hands-on experimentation while developing small and midsize applications in PHP. While there are many books on learning PHP and developing small applications with it, there is a serious lack of information on "scaling" PHP for large-scale, business-critical systems. Schlossnagle's Advanced PHP Programming fills that void, demonstrating that PHP is ready for enterprise Web applications by showing the reader how to develop PHP-based applications for maximum performance, stability, and extensibility.

Proceedings of International

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Conference on Computational Intelligence
Ritu Tiwari 2021-10-01 The book presents high quality research papers presented at International Conference on Computational Intelligence (ICCI 2020) held at Indian Institute of Information Technology, Pune, India during 12-13 December, 2020. The topics covered are artificial intelligence, neural network, deep learning techniques, fuzzy theory and systems, rough sets, self-organizing maps, machine learning, chaotic systems, multi-agent systems, computational optimization ensemble classifiers, reinforcement learning, decision trees, support vector machines, hybrid learning, statistical learning, metaheuristics algorithms: evolutionary and swarm-based algorithms like genetic algorithms, genetic programming, differential evolution, particle swarm optimization, whale optimization, spider monkey optimization, firefly

algorithm, memetic algorithms. And also machine vision, Internet of Things, image processing, image segmentation, data clustering, sentiment analysis, big data, computer networks, signal processing, supply chain management, web and text mining, distributed systems, bioinformatics, embedded systems, expert system, forecasting, pattern recognition, planning and scheduling, time series analysis, human-computer interaction, web mining, natural language processing, multimedia systems, and quantum computing.

Electrical Drives for Direct Drive Renewable Energy Systems Markus Mueller 2013-03-25 Wind turbine gearboxes present major reliability issues, leading to great interest in the current development of gearless direct-drive wind energy systems. Offering high reliability, high efficiency and low

maintenance, developments in these direct-drive systems point the way to the next generation of wind power, and Electrical drives for direct drive renewable energy systems is an authoritative guide to their design, development and operation. Part one outlines electrical drive technology, beginning with an overview of electrical generators for direct drive systems. Principles of electrical design for permanent magnet generators are discussed, followed by electrical, thermal and structural generator design and systems integration. A review of power electronic converter technology and power electronic converter systems for direct drive renewable energy applications is then conducted. Part two then focuses on wind and marine applications, beginning with a commercial overview of wind turbine drive systems and an introduction to direct drive wave energy

conversion systems. The commercial application of these technologies is investigated via case studies on the permanent magnet direct drive generator in the Zephyros wind turbine, and the Archimedes Wave Swing (AWS) direct drive wave energy pilot plant. Finally, the book concludes by exploring the application of high-temperature superconducting machines to direct drive renewable energy systems. With its distinguished editors and international team of expert contributors, Electrical drives for direct drive renewable energy systems provides a comprehensive review of key technologies for anyone involved with or interested in the design, construction, operation, development and optimisation of direct drive wind and marine energy systems. An authoritative guide to the design, development and operation of gearless direct drives Discusses the principles of

electrical design for permanent magnet generators and electrical, thermal and structural generator design and systems integration
Investigates the commercial applications of wind turbine drive systems

Speedrunning David Snyder 2017-10-12 More than 30 years after its 1985 release on the Nintendo Entertainment System, Super Mario Bros. continues to be one of the best-selling video games of all time. For many, completing the classic side-scrolling platformer remains challenging enough to provide many hours of entertainment. In late 2016 an American gamer known online as “darbian” completed the game in record time, rescuing Princess Peach in 4 minutes, 56 seconds. darbian practices speedrunning, a method of play in which quick reflexes and intimate familiarity with games are used to complete them in

the fastest possible time. Through 10 interviews with darbian and other elite speedrunners, this book explores the history and techniques of this intense and competitive type of gaming.

Internet Babylon Greg Holden 2004-04-05 * Looks at the Internet from a morbid, sordid, entertaining perspective rather than a technical how-to perspective * Makes the Internet fun, fascinating, and non-intimidating for casual users. * Focuses on well-known actors, politicians, performing artists, and other public figures and how they have been treated online.

Security in Computing and Communications Peter Mueller 2016-09-16 This book constitutes the refereed proceedings of the 4th International Symposium on Security in Computing and Communications, SSCC 2016, held in Jaipur, India, in September 2016. The 23 revised full papers presented together with 16

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short papers and an invited paper were carefully reviewed and selected from 136 submissions. The papers are organized in topical sections on cryptosystems, algorithms, primitives; security and privacy in networked systems; system and network security; steganography, visual cryptography, image forensics; applications security.

Material-Integrated Intelligent Systems Stefan

Bosse 2018-02-06

Combining different perspectives from materials science, engineering, and computer science, this reference provides a unified view of the various aspects necessary for the successful realization of intelligent systems. The editors and authors are from academia and research institutions with close ties to industry, and are thus able to offer first-hand information here. They adopt a unique, three-tiered approach such that

readers can gain basic, intermediate, and advanced topical knowledge. The technology section of the book is divided into chapters covering the basics of sensor integration in materials, the challenges associated with this approach, data processing, evaluation, and validation, as well as methods for achieving an autonomous energy supply. The applications part then goes on to showcase typical scenarios where material-integrated intelligent systems are already in use, such as for structural health monitoring and smart textiles.

Introduction to Signal Processing, Instrumentation, and Control Joseph

Bentsman 2016-01-11

This book stems from a unique and highly effective approach in introducing signal processing, instrumentation, diagnostics, filtering, control, and system integration. It presents the

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interactive industrial grade software testbed of mold oscillator that captures the mold motion distortion induced by coupling of the electro-hydraulic actuator nonlinearity with the resonance of the mold oscillator beam assembly. The testbed is then employed as a virtual lab to generate input-output data records that permit unraveling and refining complex behavior of the actual production system through merging dynamics, signal processing, instrumentation, and control into a coherent problem-solving package. The material is presented in a visually rich, mathematically and graphically well supported, but not analytically overburdened format. By incorporating software testbed into homework and project assignments, the book fully brings out the excitement of going through the adventure of exploring and solving a mold oscillator distortion

problem, while covering the key signal processing, diagnostics, instrumentation, modeling, control, and system integration concepts. The approach presented in this book has been supported by two education advancement awards from the College of Engineering of the University of Illinois at Urbana-Champaign. [Real World Instrumentation with Python](#) John M. Hughes 2010-11-15 Learn how to develop your own applications to monitor or control instrumentation hardware. Whether you need to acquire data from a device or automate its functions, this practical book shows you how to use Python's rapid development capabilities to build interfaces that include everything from software to wiring. You get step-by-step instructions, clear examples, and hands-on tips for interfacing a PC to a variety of devices. Use the book's hardware survey to identify

the interface type for your particular device, and then follow detailed examples to develop an interface with Python and C. Organized by interface type, data processing activities, and user interface implementations, this book is for anyone who works with instrumentation, robotics, data acquisition, or process control. Understand how to define the scope of an application and determine the algorithms

necessary, and why it's important Learn how to use industry-standard interfaces such as RS-232, RS-485, and GPIB Create low-level extension modules in C to interface Python with a variety of hardware and test instruments Explore the console, curses, TkInter, and wxPython for graphical and text-based user interfaces Use open source software tools and libraries to reduce costs and avoid implementing functionality from scratch