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Expert F# 4.0 - Don Syme 2015-12-31

Learn from F#'s inventor to become an expert in the latest version of this powerful programming language so you can seamlessly integrate functional, imperative, object-oriented, and query programming style flexibly and elegantly to solve any programming problem. Expert F# 4.0 will help you achieve unrivaled levels of programmer productivity and program clarity across multiple platforms including Windows, Linux, Android, OSX, and iOS as well as HTML5 and GPUs. F# 4.0 is a mature, open source, cross-platform, functional-first programming language which empowers users and organizations to tackle complex computing problems with simple, maintainable, and robust code. Expert F# 4.0 is: A comprehensive guide to the latest version of F# by the inventor of the language A treasury of F# techniques for practical problem-solving An in-depth case book of F# applications and F# 4.0 concepts, syntax, and features Written by F#'s inventor and two major F# community members, Expert F# 4.0 is a comprehensive and in-depth guide to the language and its use. Designed to help others become experts, the book quickly yet carefully describes the paradigms supported by F# language, and then shows how to use F# elegantly for a practical web, data, parallel and analytical programming tasks. The world's experts in F# show you how to program in F# the way they do!

Learning Processing - Daniel Shiffman 2015-09-09

Learning Processing, Second Edition, is a friendly start-up guide to Processing, a free, open-source alternative to expensive software and daunting programming languages. Requiring no previous experience, this book is for the true programming beginner. It teaches the basic building blocks of programming needed to create cutting-edge graphics applications including interactive art, live video processing, and data visualization. Step-by-step examples, thorough explanations, hands-on exercises, and sample code, supports your learning curve. A unique lab-style manual, the book gives graphic and web designers, artists, and illustrators of all stripes a jumpstart on working with the Processing programming environment by providing instruction on the basic principles of the language, followed by careful explanations of select advanced techniques. The book has been developed with a supportive learning experience at its core. From algorithms and data mining to rendering and debugging, it teaches object-oriented programming from the ground up within the fascinating context of interactive visual media. This book is ideal for graphic designers and visual artists without programming background who want to learn programming. It will also appeal to students taking college and graduate courses in interactive media or visual computing, and for self-study. A friendly start-up guide to Processing, a free, open-source alternative to expensive software and daunting programming languages No previous experience required—this book is for the true programming beginner! Step-by-step examples, thorough explanations, hands-on exercises, and sample code supports your learning curve

A New Direction for China's Defense Industry - Evan S. Medeiros 2005-12-19

Since the early 1980s, a prominent and consistent conclusion drawn from research on China's defense-industrial complex has been that China's defense-production capabilities are rife with weaknesses and limitations. This study argues for an alternative approach: From the vantage point of 2005, it is time to shift the focus of current research to the gradual improvements in and the future potential of China's defense-industrial complex. The study found that China's defense sectors are designing and producing a wide range of increasingly advanced weapons that, in the short term, are relevant to a possible conflict over Taiwan but also to China's long-term military presence in Asia. Part of a larger RAND Project AIR FORCE study on Chinese military modernization, this study examines the current and future capabilities of China's defense industry. The goals of this study are to 1.

Essentials of Investments - Zvi Bodie 2010

The market leading undergraduate investments textbook, Essentials of Investments, 8e by Bodie, Kane and Marcus, emphasizes asset allocation

while presenting the practical applications of investment theory. The authors have eliminated unnecessary mathematical detail and concentrate on the intuition and insights that will be useful to practitioners throughout their careers as new ideas and challenges emerge from the financial marketplace. The eighth edition has been fully updated to reflect the recent financial crisis and includes a new chapter on Hedge Funds.

Handbook of Atomization and Sprays - Nasser Ashgriz 2011-02-18

Atomization and sprays are used in a wide range of industries: mechanical, chemical, aerospace, and civil engineering; material science and metallurgy; food; pharmaceutical, forestry, environmental protection; medicine; agriculture; meteorology and others. Some specific applications are spray combustion in furnaces, gas turbines and rockets, spray drying and cooling, air conditioning, powdered metallurgy, spray painting and coating, inhalation therapy, and many others. The Handbook of Atomization and Sprays will bring together the fundamental and applied material from all fields into one comprehensive source. Subject areas included in the reference are droplets, theoretical models and numerical simulations, phase Doppler particle analysis, applications, devices and more.

Instrumentation - 1960

Zog - Julia Donaldson 2017-01-31

The story of the adorable dragon with a heart of gold is now available in a chunky board book format perfect for Julia Donaldson & Axel Scheffler's youngest fans. What do dragons learn at Madam Dragon's school? How to fly. . .How to roar. . .How to breathe fire! Zog is the most eager student in the class, but he's also the most accident prone. With each test (and each bump, bruise, or scrape), his dream of earning a gold star seems further away than ever. But a mysterious girl keeps coming to his rescue. And when Zog faces his toughest test yet, she may be just the person to help Zog win classroom glory! The beloved creators of Room on the Broom, The Gruffalo, and Stick Man are back with this tale of an unexpected hero who's good as gold.

Handbook of Power System Engineering - Yoshihide Hase 2007-06-13

Maintaining the reliable and efficient generation, transmission and distribution of electrical power is of the utmost importance in a world where electricity is the inevitable means of energy acquisition, transportation, and utilization, and the principle mode of communicating media. Our modern society is entirely dependent on electricity, so problems involving the continuous delivery of power can lead to the disruption and breakdown of vital economic and social infrastructures. This book brings together comprehensive technical information on power system engineering,

covering the fundamental theory of power systems and their components, and the related analytical approaches. Key features: Presents detailed theoretical explanations of simple power systems as an accessible basis for understanding the larger, more complex power systems. Examines widely the theory, practices and implementation of several power sub-systems such as generating plants, over-head transmission lines and power cable lines, sub-stations, including over-voltage protection, insulation coordination as well as power systems control and protection. Discusses steady-state and transient phenomena from basic power-frequency range to lightning- and switching-surge ranges, including system faults, wave-form distortion and lower-order harmonic resonance. Explains the dynamics of generators and power systems through essential mathematical equations, with many numerical examples. Analyses the historical progression of power system engineering, in particular the descriptive methods of electrical circuits for power systems. Written by an author with a wealth of experience in the field, both in industry and academia, the Handbook of Power System Engineering provides a single reference work for practicing engineers, researchers and those working in industry that want to gain knowledge of all aspects of power systems. It is also valuable for advanced students taking courses or modules in power system engineering.

Direct Injection Systems for Spark-ignition and Compression-ignition Engines - Cornel Stan 1999

This book provides assistance in choosing and adapting a mixture formation concept for an engine application with known requirements. The book presents both a synthesis of modular concepts based on function characteristics and a system classification following the physical model. Topics are focused on the injection system itself, and specific technical solutions for new concepts are concretely described.Contents Include: Direct Injection as an Element of the Mixture Formation Concept Direct Injection Methods Physical Possibilities and Limits Direct Injection of Liquid Fuel with Damped Speed Influence on the Pressure Wave Direct Injection of Liquid Fuel with Quasi Constant Maximum Pressure Direct Injection of Liquid Fuel with Speed Independent Pressure Modulation Direct Injection of Fuel/Air Pre-Mixture with Mechanical Flow Control Direct Injection of Fuel/Air Pre-Mixture with Electronic Flow Control Injection Law Modulation Injection Systems with Speed Dependent Injection Law Injection Systems with Accumulated Fuel High-Pressure (Common Rail) Injection Systems with Speed Dependent Pressure Wave and Variable Flow Passage Injection Systems with Speed Independent Modulation of the Pressure Wave Injection Systems for Alternative Fuels.

Rotordynamics of Turbomachinery - John M. Vance 1991-01-16

Describes the rotordynamic considerations that are important to the successful design or troubleshooting of a turbomachine. Shows how bearing design, fluid seals, and rotor geometry affect rotordynamic behavior (vibration, shaft whirling, bearing loads, and critical speeds), and describes two successful computational methods for rotordynamic analysis in terms that can be understood by practicing engineers. Gives descriptive accounts of the state of the art in several areas of the field and presents important mathematical or computational concepts, describing equations and formulas in physical terms for better understanding. Also offers tips for troubleshooting unstable machines and provides practical interpretations of vibration measurements.

The Normal Advance - 1902

Using Mathematica for Quantum Mechanics - Roman Schmied 2019-09-28

This book revisits many of the problems encountered in introductory quantum mechanics, focusing on computer implementations for finding and visualizing analytical and numerical solutions. It subsequently uses these implementations as building blocks to solve more complex problems, such as coherent laser-driven dynamics in the Rubidium hyperfine structure or the Rashba interaction of an electron moving in 2D. The simulations are highlighted using the programming language Mathematica. No prior knowledge of Mathematica is needed; alternatives, such as Matlab, Python, or Maple, can also be used.

Cognitive Infocommunications (CogInfoCom) - Péter Baranyi 2015-11-02

This book describes the theoretical foundations of cognitive infocommunications (CogInfoCom), and provides a survey on state-of-the-art solutions and applications within the field. The book covers aspects of cognitive infocommunications in research fields such as affective computing, BCI, future internet, HCI, HRI, sensory substitution, and virtual/augmented interactions, and also introduces newly proposed paradigms and initiatives under the field, including CogInfoCom channels, speechability and socio-cognitive ICT. The book focuses on describing the merging between humans and information and communications technology (ICT) at the level of cognitive capabilities with an approach towards developing future cognitive ICT.

Automotive Engineering International - 2008

Soft Computing and Signal Processing - V. Sivakumar Reddy 2021-05-20

This book presents selected research papers on current developments in the fields of soft computing and signal processing from the Third International Conference on Soft Computing and Signal Processing (ICSCSP 2020). The book covers topics such as soft sets, rough sets,

fuzzy logic, neural networks, genetic algorithms and machine learning and discusses various aspects of these topics, e.g., technological considerations, product implementation and application issues.

Observed Climate Variability and Change over the Indian Region - M. N. Rajeevan 2016-11-02

The objective of the book is to make a comprehensive documentation of the observed variability and change of the regional climate system over the Indian region using the past observed data. The book addresses all the important parameters of regional climate system so that a physically consistent view of the changes of the climate system is documented. The book contains 16 chapters written by the subject experts from different academic and research institutes in India. The book addresses all important components/parameters of the climate system, like rainfall, temperature, humidity, clouds, moisture, sea surface temperature and ocean heat content, sea level, glaciers and snow cover, tropical cyclones and monsoon depressions, extreme rainfall and rainstorms, heat waves and cold waves, meteorological droughts, aerosols, atmospheric aerosols, ozone and trace gases and atmospheric radiative fluxes. One chapter deals with the past monsoon using monsoon proxy data. The last chapter deals with the future climate change projections over the Indian region (rainfall and temperature) made using coupled climate models. Most of the analyses (especially on rainfall, temperature, extreme rainfall, sea surface temperature, meteorological droughts) are based on the data for a longer period of 110 years, 1901–2010. For some other parameters like moisture, clouds, heat waves and cold waves, atmospheric aerosols, ozone and trace gases and radiative fluxes, data of shorter period have been used. The articles documented inter-annual and decadal variability in addition to documenting long term trends of different parameters. The trends have been tested for statistical significance using standard techniques. It is expected that the present book will be an excellent reference material for researchers as well as for policy makers. These results will be useful in interpreting future climate change scenarios over the region being projected using coupled climate models. Further analysis of these results is required for attributing the observed variability and change to natural and anthropogenic activities.

The Energy Machine of Joseph Newman - Joseph Westley Newman 1998-05-01

Survival Analysis - John P. Klein 2013-06-29

Making complex methods more accessible to applied researchers without an advanced mathematical background, the authors present the essence of new techniques available, as well as classical techniques, and apply

them to data. Practical suggestions for implementing the various methods are set off in a series of practical notes at the end of each section, while technical details of the derivation of the techniques are sketched in the technical notes. This book will thus be useful for investigators who need to analyse censored or truncated life time data, and as a textbook for a graduate course in survival analysis, the only prerequisite being a standard course in statistical methodology.

Soviet Combat Aircraft of the Second World War: Twin-engined fighters, attack aircraft and bombers - E. Gordon 1999-04

Arranged by designers, this second installment of a two-volume set includes the aircraft of such famous names as Ilyushin, Petlyakov, and Tupolev, as well as lesser-known types. In preparing this volume, the authors combed untapped archives in the Soviet Union to uncover a wealth of data that rewrites longheld Western beliefs.

Graphics Programming with Perl - Verbruggen 2002-06-01

A reference and introduction to graphics programming with Perl and Perl modules that includes simple graphics recipes and techniques for designing flexible graphics software.

BBC Engineering, 1922-1972 - Edward Lewis Ellman Pawley 1972

Funktechnik, Radiotechnik ; Fernsehtechnik, Bildübertragungstechnik ; Grossbritannien und Nordirland ; Geschichte ; Radiobetrieb, Radiorundspruch ; Fernsehbetrieb, Eurovision.

Expert F# 2.0 - Don Syme 2011-04-22

Expert F# 2.0 is about practical programming in a beautiful language that puts the power and elegance of functional programming into the hands of professional developers. In combination with .NET, F# achieves unrivaled levels of programmer productivity and program clarity. Expert F# 2.0 is The authoritative guide to F# by the inventor of F# A comprehensive reference of F# concepts, syntax, and features A treasury of expert F# techniques for practical, real-world programming F# isn't just another functional programming language. It's a general-purpose language ideal for real-world development. F# seamlessly integrates functional, imperative, and object-oriented programming styles so you can flexibly and elegantly solve any programming problem. Whatever your background, you'll find that F# is easy to learn, fun to use, and extraordinarily powerful. F# will change the way you think about–and go about–programming. Written by F#'s inventor and two major contributors to its development, Expert F# 2.0 is the authoritative, comprehensive, and in-depth guide to the language and its use. Designed to help others become experts, the first part of the book quickly yet carefully describes the F# language. The second part then shows how to use F# elegantly for a wide variety of practical programming tasks. The world's foremost experts in F# show you how to

program in F# the way they do!

Geopositioning and Mobility - Ahmed Nait-Sidi-Moh 2013-06-12

This book presents a general overview of the applications and use of geopositioning and GNSS for assisting the supervision and management of mobile terrestrial professions, information, traffic regulation, multimodal information, pedestrian mobility and indoor geopositioning, etc. It especially focuses on the field of mobility and terrestrial transport, the automotive industry and tourism (on foot, by bicycle or motorcycle, by car, by professional vehicles or by public transport, etc.). This book explores the many possibilities, developmental and organizational factors, as well as new paradigms, which will contribute to an essential part of GNSS's civil economy, especially to Galileo in the mid-term and to Egnos in the short-term. Several of GNSS's integration structuring aspects in sustainable terrestrial mobilities will be analyzed; for example in terms of system architecture, data safety or legal constraints. Numerous diverse points of view will be presented regarding subjects such as dynamic cartography and new computing architectures of: mobility systems, interconnection, service quality, regulation or supervision functions of individual freedoms. Contents Foreword, Matthias Ruete. 1. The Geopositioning Concept, Yves Alexandre. 2. Functions and Performance of the Egnos System, Jérôme Legenne and Daniel Brocard. 3. Information, Modeling and Traffic Reconstruction, Arnaud De La Fortelle, Jean-Marc Lasgouttes and Fabien Moutarde. 4. Geopositioning and Legal Issues, Thierry Piette-Coudol. 5. Location-based Services: Platforms and Applications, Wafaa Ait-Cheik-Bihi, Ahmed Nait-Sidi-Moh, Mohamed Bakhouya, Jaafer Gaber and Maxime Wack. 6. Geofencing, Fabrice Reclus. 7. Pedestrian Navigation for the Benefit of Mobility, Pierre-Yves Gillieron, Véronique Chazal, Michael Flamm, Dominique Von Der Mühll and Monique Ruzicka-Rossier. 8. The Application of Satellite Positioning Systems in Travel Analysis,Patrick Gendre, Alexis Bacelar and Philippe Marchal. About the Authors Ahmed Nait-Sidi-Moh is Associate Professor of Industrial Engineering and Computer Engineering at the University of Picardie Jules Verne, St Quentin, France. His research interests include modeling, analysis of discrete event systems, performance evaluation and optimization, routing policies, scheduling and interoperability for service composition. Mohamed Bakhouya is a senior research scientist at Aalto University, Finland. His research interests include various aspects on the design, validation, implementation, performance evaluation and analysis of distributed systems, architectures, protocols and services. Jaafar Gaber is Associate Professor of Computational Sciences and Computer Engineering at the University of Technology of Belfort-Montbéliard, France. His research interests include ubiquitous and pervasive computing, distributed systems,

geopositioning and mobility, security and experimental performance evaluations. Maxime Wack is Associate Professor of Computational Sciences and Computer Engineering at the University of Technology of Belfort-Montbéliard, France. He heads the Geopositioning, Embedded Systems and Mobility (GSEM) team. His research interests include intelligent transportation systems, security, digital signature and certification, location-based services and distributed systems.

Advances in Mechanisms Design - Jaroslav Beran 2012-08-21

The International Conference on the Theory of Machines and Mechanisms is organized every four years, under the auspices of the International Federation for the Promotion of Mechanism and Machine Science (IFToMM) and the Czech Society for Mechanics. This eleventh edition of the conference took place at the Technical University of Liberec, Czech Republic, 4-6 September 2012. This volume offers an international selection of the most important new results and developments, in 73 papers, grouped in seven different parts, representing a well-balanced overview, and spanning the general theory of machines and mechanisms, through analysis and synthesis of planar and spatial mechanisms, dynamics of machines and mechanisms, linkages and cams, computational mechanics, rotor dynamics, biomechanics, mechatronics, vibration and noise in machines, optimization of mechanisms and machines, control and monitoring systems of machines, accuracy and reliability of machines and mechanisms, robots and manipulators to the mechanisms of textile machines.

The Reliability, Availability and Productiveness of Systems - D.J. Sherwin 2012-12-06

This book is about the measurement and prediction of the reliability behaviour of systems of physical items. It is not specifically concerned with human factors with safety analysis as such, although some of the techniques discussed are adaptable to these purposes. A machine or an electronic circuit exemplifies a system. Each machine or circuit may also be treated as an item in a larger system. However, this does not reduce it suddenly to basic component status; it remains complex and can only be treated as unitary under definable restrictions. In particular, the effects of maintenance and component renewal must be considered most carefully. Previous books on system reliability have concentrated on one or two only of the six principal techniques available to the analyst. These are: 1. probability theory; 2. distributional statistics; 3. markov methods (matrix algebra); 4. fault and event trees (Boolean logic); 5. theory of renewal processes; 6. directional graph theory (di-graphs). This book relates these methods to one another and to their applications. The authors feel that previous books which concentrated upon one tech nique and the

contortions necessary to use it in every possible situation may have misled readers into believing that there were no other methods and that some real problems were intractable or more difficult to solve than need be. For example, several results which are proved in other books for items with exponentially distributed times to/between failures are shown to be independent of distribution.

Advances in Internal Combustion Engines and Fuel Technologies - Hoon Kiat Ng 2013-03-20

This book highlights the important need for more efficient and environmentally sound combustion technologies that utilise renewable fuels to be continuously developed and adopted. The central theme here is two-fold: internal combustion engines and fuel solutions for combustion systems. Internal combustion engines remain as the main propulsion system used for ground transportation, and the number of successful developments achieved in recent years is as varied as the new design concepts introduced. It is therefore timely that key advances in engine technologies are organised appropriately so that the fundamental processes, applications, insights and identification of future development can be consolidated. In the future and across the developed and emerging markets of the world, the range of fuels used will significantly increase as biofuels, new fossil fuel feedstock and processing methods, as well as variations in fuel standards continue to influence all combustion technologies used now and in coming streams. This presents a challenge requiring better understanding of how the fuel mix influences the combustion processes in various systems. The book allows extremes of the theme to be covered in a simple yet progressive way.

Graphics and Visualization - T. Theoharis 2008-05-30

This book is a comprehensive introduction to visual computing, dealing with the modeling and synthesis of visual data by means of computers. What sets this book apart from other computer graphics texts is the integrated coverage of computer graphics and visualization topics, including important techniques such as subdivision and multi-resolution modeling, scene graphs, shadow generation, ambient occlusion, and scalar and vector data visualization. Students and practitioners will benefit from the comprehensive coverage of the principles that are the basic tools of their trade, from fundamental computer graphics and classic visualization techniques to advanced topics.

Aircraft Propulsion Systems Technology and Design - Gordon C. Oates 1989

Programming IOS 11 - Matt Neuburg 2017-12-07

If you're grounded in the basics of Swift, Xcode, and the Cocoa

framework, this book provides a structured explanation of all essential real-world iOS app components. Through deep exploration and copious code examples, you'll learn how to create views, manipulate view controllers, and add features from iOS frameworks. Create, arrange, draw, layer, and animate views that respond to touch Use view controllers to manage multiple screens of interface Master interface classes for scroll views, table views, text, popovers, split views, web views, and controls Dive into frameworks for sound, video, maps, and sensors Access user libraries: music, photos, contacts, and calendar Explore additional topics, including files, networking, and threads Stay up-to-date on iOS 11 innovations, such as: Drag and drop Autolayout changes (including the new safe area) Stretchable navigation bars Table cell swipe buttons Dynamic type improvements Offline sound file rendering, image picker controller changes, new map annotation types, and more All example code (now rewritten in Swift 4) is available on GitHub for you to download, study, and run. Want to brush up on the basics? Pick up iOS 11 Programming Fundamentals with Swift to learn about Swift, Xcode, and Cocoa. Together with Programming iOS 11, you'll gain a solid, rigorous, and practical understanding of iOS 11 development.

Investments - Zvi Bodie 2004

Suitable for the graduate/MBA investments market, this work has as its unifying theme that security markets are nearly efficient, meaning that most securities are usually priced appropriately given their risk and return attributes. It focuses on asset allocation, and offers a treatment of futures, options, and other derivative security markets.

Generalized Additive Models - Simon Wood 2006-02-27

Now in widespread use, generalized additive models (GAMs) have evolved into a standard statistical methodology of considerable flexibility. While Hastie and Tibshirani's outstanding 1990 research monograph on GAMs is largely responsible for this, there has been a long-standing need for an accessible introductory treatment of the subject that also emphasizes recent penalized regression spline approaches to GAMs and the mixed model extensions of these models. Generalized Additive Models: An Introduction with R imparts a thorough understanding of the theory and practical applications of GAMs and related advanced models, enabling informed use of these very flexible tools. The author bases his approach on a framework of penalized regression splines, and builds a well-grounded foundation through motivating chapters on linear and generalized linear models. While firmly focused on the practical aspects of GAMs, discussions include fairly full explanations of the theory underlying the methods. Use of the freely available R software helps explain the theory and illustrates the practicalities of linear, generalized linear, and

generalized additive models, as well as their mixed effect extensions. The treatment is rich with practical examples, and it includes an entire chapter on the analysis of real data sets using R and the author's add-on package mgcv. Each chapter includes exercises, for which complete solutions are provided in an appendix. Concise, comprehensive, and essentially self-contained, Generalized Additive Models: An Introduction with R prepares readers with the practical skills and the theoretical background needed to use and understand GAMs and to move on to other GAM-related methods and models, such as SS-ANOVA, P-splines, backfitting and Bayesian approaches to smoothing and additive modelling.

The Dark Side Sourcebook - Bill Slavicsek 2001

In this essential rule book, roleplaying gamers will discover histories of the Sith and other dark side sects, key descriptions of infamous dark side villains, and ideas on how to implement evil player characters into their campaigns.

Design Principles of Ships and Marine Structures - Suresh Chandra Misra 2015-12-01

The Definitive Reference for Designers and Design Students A solid grasp of the fundamentals of materials, along with a thorough understanding of load and design techniques, provides the components needed to complete a marine platform design. Design Principles of Ships and Marine Structures details every facet of ship design and design integration, and highlights the design aspects that must be put together to create an integrated whole product. This book discusses naval architecture and marine engineering applications and principles relevant to the design of various systems, examines advanced numerical techniques that can be applied to maritime design procedure at the concept design stage, and offers a comprehensive approach to the subject of ship design. Covers the Entire Sphere of Marine Design The book begins with an introduction to marine design and the marine environment, describing many of the marine products that are used for transportation, defense and the exploitation of marine resources. It also discusses stability issues relevant to ship design, as well as hydrodynamic aspects of resistance, propulsion, sea keeping and maneuvering, and their effects on design. In addition to covering the various systems and sub-systems that go into making a complex product to be used in maritime environment, the author explains engineering economics and its application in ship design, and provides examples wherever necessary. Written by an author with more than 35 years of teaching experience, this book: Describes various design methodologies such as sequential design process with the application of concurrent engineering and set based design factors in the use of computer-aided design techniques Highlights the shape design methodology of ship forms

and layout design principles Considers design aspects relative to safety and risk assessment Introduces the design for production aspects in marine product development Discusses design principles for sustainability Explains the principles of numerical optimization for decision-making Design Principles of Ships and Marine Structures focuses on ship design efficiency, safety, sustainability, production, and management, and appeals to students and design professionals in the field of shipping, shipbuilding and offshore engineering.

The Wind Power Book - Jack Park 1981

Covers basics of wind-electric systems, water-pumping windmills, and a wind furnace. Focuses on how to build appropriate windmills in many different situations, on all kinds of sites.

Index to Names of Applicants in Connection with Published Complete Specifications - Great Britain. Patent Office 1896

Fundamentals of Parallel Computer Architecture - Yan Solihin 2009-10

Computer Graphics - M. Pauline Baker 1994

First Principles of Meteorology and Air Pollution - Mihalis Lazaridis 2010-11-18

This book's main objective is to decipher for the reader the main processes in the atmosphere and the quantification of air pollution effects on humans and the environment, through first principles of meteorology and modelling/measurement approaches. The understanding of the complex sequence of events, starting from the emission of air pollutants into the atmosphere to the human health effects as the final event, is necessary for the prognosis of potential risk to humans from specific chemical compounds and mixtures of them. It fills a gap in the literature by providing a solid grounding in the first principles of meteorology and air pollution, making it particularly useful for undergraduate students. Its broad scope makes it a valuable text in many related disciplines, containing a comprehensive and integrated methodology to study the first principles of air pollution, meteorology, indoor air pollution, and human exposure. Problem-solving exercises help to reinforce concepts.

Physics of Solar Energy - C. Julian Chen 2011-08-15

PHYSICS OF Solar Energy Science/Physics/Energy The definitive guide to the science of solar energy You hold in your hands the first, and only, truly comprehensive guide to the most abundant and most promising source of alternative energy—solar power. In recent years, all major countries in the world have been calling for an energy revolution. The renewable energy industry will drive a vigorous expansion of the global economy and create

more “green” jobs. The use of fossil fuels to power our way of living is moving toward an inevitable end, with sources of coal, petroleum, and natural gas being fiercely depleted. Solar energy offers a ubiquitous, inexhaustible, clean, and highly efficient way of meeting the energy needs of the twenty-first century. This book is designed to give the reader a solid footing in the general and basic physics of solar energy, which will be the basis of research and development in new solar engineering technologies in the years to come. As solar technologies like solar cells, solar thermal power generators, solar water heaters, solar photochemistry applications, and solar space heating-cooling systems become more and more prominent, it has become essential that the next generation of energy experts—both in academia and industry—have a one-stop resource for learning the basics behind the science, applications, and technologies afforded by solar energy. This book fills that need by laying the groundwork for the projected rapid expansion of future solar projects.

Climate Change 2007 - Intergovernmental Panel on Climate Change. Working Group 2 2007