
Download Ebook Dmc Gf2 Manual

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KEY=DMC - CHAIM BERRY

Panasonic Lumix FZ80 and FZ82 User's Guide

A colour illustrated version of the user's manual for the Panasonic Lumix FZ80 and FZ82 camera covering both the basic camera set up in the full auto (intelligent auto) and all the other, semi-automatic and manual modes. Plenty of illustrations and examples of the effects of the control settings and extensive background information on the image taking process with this camera. Advice on how to take pictures in any situation and practical advice for recording video and audio with this camera from lighting and external audio recorder and microphone choice. Practical hints and tips for advancing your photography with access to more tutorials and web-based information.

Kamera DSLR Itu Mudah!

Bukune Seiring dengan perkembangan teknologi saat ini, harga kamera semakin terjangkau, dan siapa pun bisa menjadi fotografer. Tetapi, kamera yang bagus belum tentu menghasilkan gambar yang bagus jika pemiliknya belum mengerti tip dan trik menggunakannya. Setiap fungsi pada kamera berperan besar dalam menentukan kualitas foto. Tentu kita tidak ingin hasil foto kita terlalu terang/gelap, tidak fokus, atau warnanya kurang pas, kan? Kamera DSLR Itu Mudah! akan membantu kamu memahami dasar-dasar fotografi dengan cara sederhana mungkin. Dilengkapi dengan ilustrasi berwarna, buku ini menerangkan kepada kamu mulai dari cara menentukan setting pada kamera, lensa, pengaturan pencahayaan, hingga komposisi. Perlu diingat bahwa foto yang baik bukan dihasilkan secara untung-untungan, tetapi merupakan suatu hasil pemikiran. -Bukune-

A Mathematical Introduction to Robotic Manipulation

CRC Press A Mathematical Introduction to Robotic Manipulation presents a mathematical formulation of the kinematics, dynamics, and control of robot manipulators. It uses an elegant set of mathematical tools that emphasizes the geometry of robot motion and allows a large class of robotic manipulation problems to be analyzed within a unified framework. The foundation of the book is a derivation of robot kinematics using the product of the exponentials formula. The authors explore the kinematics of open-chain manipulators and multifingered robot hands, present an analysis of the dynamics and control of robot systems, discuss the specification and control of internal forces and internal motions, and address the implications of the nonholonomic nature of rolling contact are addressed, as well. The wealth of information, numerous examples, and exercises make A Mathematical Introduction to Robotic Manipulation valuable as both a reference for robotics researchers and a text for students in advanced robotics courses.

Introduction to Coding Theory

Cambridge University Press This 2006 book introduces the theoretical foundations of error-correcting codes for senior-undergraduate to graduate students.

In Camera: How to Get Perfect Pictures Straight Out of the Camera

Ilex Press With amazing low-light capabilities, incredible definition, intelligent autofocus and a host of other features, digital cameras have now become so powerful that they have left their users behind. Most photographers can take competent shots in a range of conditions, or fix imperfect exposures in Photoshop or Lightroom, but very few have the skill to push their cameras to the limit and capture the perfect shot, under all conditions, with no post-processing required. In Camera is the perfect way to take your photography to that level; to master your camera, understand light, exposure and composition, and make amazing photographs, whatever your camera, without cheating after the event. One hundred of Gordon's beautiful photos are given with his own expert commentary; full settings and camera details are included, and a host of tips and tricks let photographers of any level learn something from every example. The shots are taken with a wide range of cameras, and the emphasis is on getting results by improving your own skills, not wasting money on expensive equipment.

Panasonic Lumix DMC-FZ300 DMC-FZ330 User's Guide

An full colour illustrated user's manual for the Panasonic Lumix DMC FZ300/330 camera covering both the basic camera set up in the full auto (intelligent auto) and all the other, semi automatic and manual modes. Plenty of illustrations and examples of the effects of the control settings and extensive background information on the image taking process with this camera. Advise on how to take pictures in any situation and practical advice for recording video and audio with this camera from lighting and external microphone choice. Practical hints and tips for advancing your photography with access to more tutorials and web based information.

Theory and Design of Digital Communication Systems

Cambridge University Press Providing the underlying principles of digital communication and the design techniques of real-world systems, this textbook prepares senior undergraduate and graduate students for the engineering practices required in industry. Covering the core concepts, including modulation, demodulation, equalization, and channel coding, it provides step-by-step mathematical derivations to aid understanding of background material. In addition to describing the basic theory, the principles of system and subsystem design are introduced, enabling students to visualize the intricate connections between subsystems and understand how each aspect of the design supports the overall goal of achieving reliable communications. Throughout the book, theories are linked to practical applications with over 250 real-world examples, whilst 370 varied homework problems in three levels of difficulty enhance and extend the text material. With this textbook, students can understand how digital communication systems operate in the real world, learn how to design subsystems, and evaluate end-to-end performance with ease and confidence.

Digital Communication Principles and System Modelling

Springer Science & Business Media "Digital Communications" presents the theory and application of the philosophy of Digital Communication systems in a unique but lucid form. The book inserts equal importance to the theory and application aspect of the subject whereby the authors selected a wide class of problems. The Salient features of the book are: 1. The foundation of Fourier series, Transform and wavelets are introduced in a unique way but in lucid language. 2. The application area is rich and resembles the present trend of research, as we are attached with those areas professionally. 3. Elegant exercise section is designed in such a way that, the readers can get the flavor of the subject and get attracted towards the future scopes of the subject. 4. Unparallel tabular, flow chart based and pictorial methodology description will be there for sustained impression of the proposed design/algorithms in mind.

A History of the Photographic Lens

Elsevier The lens is generally the most expensive and least understood part of any camera. In this book, Rudolf Kingslake traces the historical development of the various types of lenses from Daguerre's invention of photography in 1839 through lenses commonly used today. From an early lens still being manufactured for use in low-cost cameras to designs made possible through such innovations as lens coating, rare-earth glasses, and computer aided lens design and testing, the author details each major advance in design and fabrication. The book explains how and why each new lens type was developed, and why most of them have since been abandoned. This authoritative history of lens technology also includes brief biographies of several outstanding lens designers and manufacturers of the past.

Modelling and Controlling Hydropower Plants

Springer Science & Business Media Hydroelectric power stations are a major source of electricity around the world; understanding their dynamics is crucial to achieving good performance. The electrical power generated is normally controlled by individual feedback loops on each unit. The reference input to the power loop is the grid frequency deviation from its set point, thus structuring an external frequency control loop. The book discusses practical and well-documented cases of modelling and controlling hydropower stations, focused on a pumped storage scheme based in Dinorwig, North Wales. These accounts are valuable to specialist control engineers who are working in this industry. In addition, the theoretical treatment of modern and classic controllers will be useful for graduate and final year undergraduate engineering students. This book reviews SISO and MIMO models, which cover the linear and nonlinear characteristics of pumped storage hydroelectric power stations. The most important dynamic features are discussed. The verification of these models by hardware in the loop simulation is described. To show how the performance of a pumped storage hydroelectric power station can be improved, classical and modern controllers are applied to simulated models of Dinorwig power plant, that include PID, Fuzzy approximation, Feed-Forward and Model Based Predictive Control with linear and hybrid prediction models.

Project Management for Engineering, Business and Technology

Routledge Project Management for Engineering, Business and Technology is a highly regarded textbook that addresses project management across all industries. First covering the essential background, from origins and philosophy to methodology, the bulk of the book is dedicated to concepts and techniques for practical application. Coverage includes project initiation and proposals, scope and task definition, scheduling, budgeting, risk analysis, control, project selection and portfolio management, program management, project organization, and all-important "people" aspects—project leadership, team building, conflict resolution, and stress management. The systems development cycle is used as a framework to discuss project management in a variety of situations, making this the go-to book for managing virtually any kind of project, program, or task force. The authors focus on the ultimate purpose of project management—to unify and integrate the interests, resources and work efforts of many stakeholders, as well as the planning, scheduling, and budgeting needed to accomplish overall project goals. This sixth edition features: updates throughout to cover the latest developments in project management methodologies; a new chapter on project procurement management and contracts; an expansion of case study coverage throughout, including those on the topic of sustainability and climate change, as well as cases and examples from across the globe, including India, Africa, Asia, and Australia; and extensive instructor support materials, including an instructor's manual, PowerPoint slides, answers to chapter review questions and a test bank of questions. Taking a technical yet accessible approach, this book is an ideal resource and reference for all advanced undergraduate and graduate students in project management courses, as well as for practicing project managers across all industry sectors.

Extracts From the Diary and Letters of Mrs. Mary Cobb (Classic Reprint)

Forgotten Books Excerpt from Extracts From the Diary and Letters of Mrs. Mary Cobb Many difficulties and painful trials preceded her union with Mr. C and several extracts are made from her diary during that period, which evince a peculiar degree of confidence in god, and calm submission to his will, in the most perplexing circumstances; together with the most cautious fear of incurring his displeasure, or dishonouring his name. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.forgottenbooks.com This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works.

Simulating Wireless Communication Systems

Practical Models In C++

Pearson Education Simulating Wireless Communication Systems: Practical Models in C++ C. Britton Rorabaugh The practical, inclusive reference for engineers simulating wireless systems In order to keep prices within reach of the average consumer, cellular phone and wireless data transceiver manufacturers resort to mass producing millions of units from a single design. Considering the design complexity and fabrication expense involved, typical prototyping is not practical—designs must first be tested and honed using simulation. Author C. Britton Rorabaugh brings to the table more than 20 years of experience simulating large, state-of-the-art communications systems. In Simulating Wireless Communication Systems, Rorabaugh explores, using C++, practical and authoritative techniques for simulating even the most complex wireless communication systems. Along the way he shows you how to create custom simulations that fit your project's intended design, so that you and your engineering team aren't forced to resort to inadequate commercial simulation packages. This book includes nearly two hundred models of practical devices for implementing wireless communication systems and major subsystems. Mathematical and statistical appendices are also included to provide useful information for those seeking to understand, set up, and use any of Rorabaugh's detailed device models. Contents include: A background and overview of simulation Discussion of a variety of model types, including Random Process, Filter, and Channel models Practical modulation and demodulation Synchronization, signal shifting, and recovery Detailed instructions for working with Galois fields A comprehensive companion Web site featuring dozens of ready-to-run software modules If you're an engineer or wireless communication project manager, then Simulating Wireless Communication Systems: Practical Models in C++ will prove to be both a convenient reference and an ideal instructional manual for the creation of specialized wireless communication simulations that will enable you to bring your product to market in a cost-effective and efficient manner. C. BRITTON RORABAUGH has a BS and MS in Electrical Engineering from Drexel University and currently holds the position of Chief Scientist for a company that develops and manufactures specialized military communications

equipment. He is the author of several publications on topics such as DSP, Digital Filters, and Error Coding and has experience in object-oriented design, realtime software, numerical methods, computer graphics, C++, C, SPW, MATLAB®, Visio®, TEX/LATEX, Microsoft® Office, and assembly languages for various microprocessors and DSP devices. ISBN: 0-13-022268-2 PRENTICE HALL Professional Technical Reference Upper Saddle River, NJ 07458 www.phptr.com © Copyright Pearson Education. All rights reserved.

Michelle First Lady Paper Doll

Paperdollywood The colorful book features two 10-inch dolls and eight pages of clothes to cut out and dress the Michelle dolls include more than twenty outfits illustrated by David Wolfe. The paper doll book is fun for collectors of all ages and also offers an historic view of how Michelle Obama became America's favorite fashion icon during the presidential campaign and inauguration. Every outfit in the book was actually worn by Mrs. Obama. Especially noteworthy is the inclusion of the news making J.Crew skirt and sweater worn on "The Tonight Show with Jay Leno" and the black and white print dress worn on "The View." Of course, the highly publicized fashions worn during the Inauguration ceremonies are given pride of place in the book's center spread. There is the Isabel Toledo lemongrass Swiss lace coat ensemble, the Narcisco Rodriguez outfit worn at the concert and of course, the ivory floral/crystal ball gown destined for the Smithsonian. The beautiful bridal gown worn for the Obama's 1992 wedding is also included in the beautifully illustrated book.

It's Not About the F-Stop

New Riders Jay Maisel has been hailed as one of the most brilliant and gifted photographers of all time. But he is also much more than that—he is a mentor, teacher, and trailblazer to many photographers, and a hero to those who feel Jay's teaching has changed the way they see and create their own photography. He is a living legend whose work is studied around the world, and whose teaching style and presentation garner standing ovations and critical acclaim every time he takes the stage. In his first educational book, *Light, Gesture, and Color*, Jay put his amazing insights and learning moments from a lifetime behind the lens into a book that communicated the three most important aspects of street photography: light, gesture, and color. Here, in *It's Not About the F-Stop*, Jay builds on that success to take you beyond the buttons and dials on your camera to continue to teach you how to “see” like a photographer, and how to capture the world around you in a way that delights, intrigues, and challenges the viewer. Each page unveils something new and inspires you to rethink everything you know about the bigger picture of photography. This isn't a book about f-stops or ISOs. It's about seeing. And nobody communicates this, visually or through the written word, like Jay Maisel.

Astrophotography

Rocky Nook, Inc. Today's photographic equipment allows amateurs to take pictures of the stars that far surpass images taken just a few decades ago by even the largest observatories—and this book will teach you how. Author and world-renowned astrophotographer Thierry Legault teaches the art and techniques of astrophotography: from simple camera-on-tripod night-scene imaging of constellations, star trails, eclipses, artificial satellites, and polar auroras to more intensive astrophotography using specialized equipment for lunar, planetary, solar, and deep-sky imaging. Legault shares advice on equipment and guides you through techniques to capture and process your images to achieve spectacular results. Astrophotography provides the most thorough treatment of the topic available. This large-format, richly illustrated book is intended for all sky enthusiasts—newcomers and veterans alike. Learn how to: Select the most useful equipment: cameras, adapters, filters, focal reducers/extenders, field correctors, and guide telescopes Set up your camera (digital, video, or CCD) and your lens or telescope for optimal results Plan your observing sessions Mount the camera on your telescope and focus it for razor-sharp images Polar-align your equatorial mount and improve tracking for pin-point star images Make celestial time-lapse videos Calculate the shooting parameters: focal length and ratio, field of view, exposure time, etc. Combine multiples exposures to reveal faint galaxies, nebulae details, elusive planetary structures, and tiny lunar craters Adjust contrast, brightness, light curves, and colors Postprocess your images to fix defects such as vignetting, dust shadows, hot pixels, uneven background, and noise Identify problems with your images and improve your results

Physical-Layer Security

From Information Theory to Security Engineering

Cambridge University Press This complete guide to physical-layer security presents the theoretical foundations, practical implementation, challenges and benefits of a groundbreaking new model for secure communication. Using a bottom-up approach from the link level all the way to end-to-end architectures, it provides essential practical tools that enable graduate students, industry professionals and researchers to build more secure systems by exploiting the noise inherent to communications channels. The book begins with a self-contained explanation of the information-theoretic limits of secure communications at the physical layer. It then goes on to develop practical coding schemes, building on the theoretical insights and enabling readers to understand the challenges and opportunities related to the design of physical layer security schemes. Finally, applications to multi-user communications and network coding are also included.

Coding and Information Theory

Springer Science & Business Media This book is an introduction to information and coding theory at the graduate or advanced undergraduate level. It assumes a basic knowledge of probability and modern algebra, but is otherwise self-contained. The intent is to describe as clearly as possible the fundamental issues involved in these subjects, rather than covering all aspects in an encyclopedic fashion. The first quarter of the book is devoted to information theory, including a proof of Shannon's famous Noisy Coding Theorem. The remainder of the book is devoted to coding theory and is independent of the information theory portion of the book. After a brief discussion of general families of codes, the author discusses linear codes (including the Hamming, Golary, the Reed-Muller codes), finite fields, and cyclic codes (including the BCH, Reed-Solomon, Justesen, Goppa, and Quadratic Residue codes). An appendix reviews relevant topics from modern algebra.

Multi-Component Crystals

Synthesis, Concepts, Function

Walter de Gruyter GmbH & Co KG In this volume, contributions covering the theoretical and practical aspects of multicomponent crystals provide a timely and contemporary overview of the state-of-the art of this vital aspect of crystal engineering/materials science. With a solid foundation in fundamentals, multi-component crystals can be formed, for example, to enhance pharmaceutical properties of drugs, for the specific control of optical responses to external stimuli and to assemble molecules to allow chemical reactions that are generally intractable following conventional methods. Contents Pharmaceutical co-crystals: crystal engineering and applications Pharmaceutical multi-component crystals: improving the efficacy of anti-tuberculous agents Qualitative and quantitative crystal engineering of multi-functional co-crystals Control of photochromism in N-salicylideneaniline by crystal engineering Quinoline derivatives for multi-component crystals: principles and applications N-oxides in multi-component crystals and in bottom-up synthesis and applications Multi-component crystals and non-ambient conditions Co-crystals for solid-state reactivity and thermal expansion Solution co-crystallisation and its applications The salt-co-crystal continuum in halogen-bonded systems Large horizontal displacements of benzene-benzene stacking interactions in co-crystals Simultaneous halogen and hydrogen bonding to carbonyl and thiocarbonyl functionality Crystal chemistry of the isomeric N,N'-bis(pyridin-n-ylmethyl)-ethanediamides, n = 2, 3 or 4 Solute-solvent interactions mediated by main group element (lone-pair)π(aryl) interactions

Wireless Communications Systems Design

John Wiley & Sons em style="mso-bidi-font-style: normal;"Wireless Communications Systems Design provides the basic knowledge and methodology for wireless communications design. The book mainly focuses on a broadband wireless communication system based on OFDM/OFDMA system because it is widely used in the modern wireless communication system. It is divided into three parts: wireless communication theory (part I), wireless communication block design (part II), and wireless communication block integration (part III). Written by an expert with various experience in system design (standards, research and development)

2020 Joint Agency Commercial Imagery Evaluation

Remote Sensing Satellite Compendium

Underwater Optics

The irradiance pattern was measured for the propagation of a collimated beam of light underwater. A neodymium-doubled green laser was transmitted horizontally at a six foot depth in Lake Winnepesaukee, N.H. The irradiance was measured at distances from 0 to 100 feet and for off-axis angles from 0 to 58 degrees. The water had an attenuation length of 4.54 ft/ln and an absorption coefficient of 0.0446 ln/ft. The ratio of attenuation coefficient to absorption coefficient was 4.94. The fractional power contained within a cone of various angles was computed. At 20 attenuation lengths only 10% of the total power is contained within a cone of 4 degrees whereas at 4 attenuation lengths this same cone contains 50% of the power. (Author).

Field Programmable Logic and Applications

9th International Workshops, FPL'99, Glasgow, UK, August 30 - September 1, 1999, Proceedings

Springer This book contains the papers presented at the 9th International Workshop on Field Programmable Logic and Applications (FPL'99), hosted by the University of Strathclyde in Glasgow, Scotland, August 30 - September 1, 1999. FPL'99 is the ninth in the series of annual FPL workshops. The FPL'99 programme committee has been fortunate to have received a large number of high-quality papers addressing a wide range of topics. From these, 33 papers have been selected for presentation at the workshop and a further 32 papers have been accepted for the poster sessions. A total of 65 papers from 20 countries are included in this volume. FPL is a subject area that attracts researchers from both electronic engineering and computer science. Whether we are engaged in research into soft hardware or hard software seems to be primarily a question of perspective. What is unquestionable is that the interaction of groups of researchers from different backgrounds results in stimulating and productive research. As we prepare for the new millennium, the premier European forum for researchers in field programmable logic remains the FPL workshop. Next year the FPL series of workshops will celebrate its tenth anniversary. The contribution of so many overseas researchers has been a particularly attractive feature of these events, giving them a truly international perspective, while the informal and convivial atmosphere that pervades the workshops have been their hallmark. We look forward to preserving these features in the future while continuing to expand the size and quality of the events.

Canon EOS Rebel T7/2000D For Dummies

John Wiley & Sons A photography class—in a book! Your Canon EOS Rebel T7/1400D provides enough camera power to take the pro-style shots you've dreamed of shooting—and this book shows you how. Canon EOS Rebel T7/1400D For Dummies bridges the gap between taking quick shots in auto mode and taking charge of the settings that offer full control of your pictures' focus, color, and light balance. Take a peek inside to discover all the expert tips and tricks to take brag-worthy portraits, action shots, and close-ups—in a flash. No matter your subject, you'll get all the know-how and instruction you need to get the picture-perfect shot every time. Get started with automatic and creative modes Take full control of exposure to achieve better results Understand the settings that control light and color Follow steps on properly using flash Even if you've never picked up a DSLR camera, this friendly guide makes it fast and easy to unlock all your powerful Canon has to offer!

Information Theory, Coding and Cryptography

Pearson Education India Information Theory, Coding & Cryptography has been designed as a comprehensive book for the students of engineering discussing Source Encoding, Error Control Codes & Cryptography. The book contains the recent developments of coded modulation, trellises for codes, turbo coding for reliable data and interleaving. The text balances the mathematical rigor with exhaustive amount of solved, unsolved questions along with a database of MCQs.

Information Systems Security

Third International Conference, ICISS 2007, Delhi, India, December 16-20, 2007, Proceedings

Springer Science & Business Media This book constitutes the refereed proceedings of the Third International Conference on Information Systems Security, ICISS 2007, held in Delhi, India, in December 2007. The 18 revised full papers and 5 short papers presented together with 4 keynote papers were carefully reviewed and selected from 78 submissions. The submitted topics in cryptography, intrusion detection, network security, information flow systems, Web security, and many others offer a detailed view of the state of the art in information security. The papers are organized in topical sections on network security, cryptography, architectures and systems, cryptanalysis, protocols, detection and recognition, as well as short papers.

Radio Frequency and Microwave Electronics Illustrated

Prentice Hall Foreword by Dr. Asad Madni, C. Eng., Fellow IEEE, Fellow IEE Learn the fundamentals of RF and microwave electronics visually, using many thoroughly tested, practical examples RF and microwave technology are essential throughout industry and to a world of new applications—in wireless communications, in Direct Broadcast TV, in Global Positioning System (GPS), in healthcare, medical and many other sciences. Whether you're seeking to strengthen your skills or enter the field for the first time, Radio Frequency and Microwave Electronics Illustrated is the fastest way to master every key measurement, electronic, and design principle you need to be effective. Dr. Matthew Radmanesh uses easy mathematics and a highly graphical approach with scores of examples to bring about a total comprehension of the subject. Along the way, he clearly introduces everything from wave propagation to impedance matching in transmission line circuits, microwave linear amplifiers to hard-core nonlinear active circuit design in Microwave Integrated Circuits (MICs). Coverage includes: A scientific framework for learning RF and microwaves easily and effectively Fundamental RF and microwave concepts and their applications The characterization of two-port networks at RF and microwaves using S-parameters Use of the Smith Chart to simplify analysis of complex design problems Key design considerations for microwave amplifiers: stability, gain, and noise Workable considerations in the design of practical active circuits: amplifiers, oscillators, frequency converters, control circuits RF

and Microwave Integrated Circuits (MICs) Novel use of "live math" in circuit analysis and design Dr. Radmanesh has drawn upon his many years of practical experience in the microwave industry and educational arena to introduce an exceptionally wide range of practical concepts and design methodology and techniques in the most comprehensible fashion. Applications include small-signal, narrow-band, low noise, broadband and multistage transistor amplifiers; large signal/high power amplifiers; microwave transistor oscillators, negative-resistance circuits, microwave mixers, rectifiers and detectors, switches, phase shifters and attenuators. The book is intended to provide a workable knowledge and intuitive understanding of RF and microwave electronic circuit design. Radio Frequency and Microwave Electronics Illustrated includes a comprehensive glossary, plus appendices covering key symbols, physical constants, mathematical identities/formulas, classical laws of electricity and magnetism, Computer-Aided-Design (CAD) examples and more. About the Web Site The accompanying web site has an "E-Book" containing actual design examples and methodology from the text, in Microsoft Excel environment, where files can easily be manipulated with fresh data for a new design.

Digital Communications

Digital Communications is a classic book in the area that is designed to be used as a senior or graduate level text. The text is flexible and can easily be used in a one semester course or there is enough depth to cover two semesters. Its comprehensive nature makes it a great book for students to keep for reference in their professional careers. This all-inclusive guide delivers an outstanding introduction to the analysis and design of digital communication systems. Includes expert coverage of new topics: TurboCodes, Turboequalization, Antenna Arrays, Digital Cellular Systems, and Iterative Detection. Convenient, sequential organization begins with a look at the history and classification of channel models and builds from there.

Information Theory, Coding and Cryptography

The fields of Information Theory, Coding and Cryptography are ever expanding, and the last six years have seen a spurt of new ideas germinate, mature and get absorbed in industrial standards and applications. Many of these new concepts* have been included.

Wireless Communications

John Wiley & Sons "Professor Andreas F. Molisch, renowned researcher and educator, has put together the comprehensive book, *Wireless Communications*. The second edition, which includes a wealth of new material on important topics, ensures the role of the text as the key resource for every student, researcher, and practitioner in the field." —Professor Moe Win, MIT, USA Wireless communications has grown rapidly over the past decade from a niche market into one of the most important, fast moving industries. Fully updated to incorporate the latest research and developments, *Wireless Communications, Second Edition* provides an authoritative overview of the principles and applications of mobile communication technology. The author provides an in-depth analysis of current treatment of the area, addressing both the traditional elements, such as Rayleigh fading, BER in flat fading channels, and equalisation, and more recently emerging topics such as multi-user detection in CDMA systems, MIMO systems, and cognitive radio. The dominant wireless standards; including cellular, cordless and wireless LANs; are discussed. Topics featured include: wireless propagation channels, transceivers and signal processing, multiple access and advanced transceiver schemes, and standardised wireless systems. Combines mathematical descriptions with intuitive explanations of the physical facts, enabling readers to acquire a deep understanding of the subject. Includes new chapters on cognitive radio, cooperative communications and relaying, video coding, 3GPP Long Term Evolution, and WiMax; plus significant new sections on multi-user MIMO, 802.11n, and information theory. Companion website featuring: supplementary material on 'DECT', solutions manual and presentation slides for instructors, appendices, list of abbreviations and other useful resources.

The Panasonic Lumix DMC-GH2

The Unofficial Quintessential Guide

Rocky Nook, Inc. **The Panasonic Lumix DMC-GH2: The Unofficial Quintessential Guide** provides a wealth of information and professional insights for owners of this powerful HD camera. With its electronic viewfinder and interchangeable lenses, the GH2 is capable of not only recording professional-quality still images, but has the added ability to record HD video as well. The mirrorless design enhances the camera's versatility beyond that of most digital single lens reflex (DSLR) cameras. With the appropriate adapters, it can use virtually any manufacturer's manual focus, legacy lens. It is smaller than a typical DSLR in both size and weight, and retains automatic focusing while recording videos capability that is missing in many DSLR cameras. With the GH2, Panasonic has significantly expanded the video capabilities beyond those of previous models. Among the improvements is the ability to adjust the frame rate and shutter speed when filming video, giving users greater control over the movie-making process. In this guide, authors Brian Matsumoto and Carol F. Roullard explore and explain the features and capabilities of the GH2 camera in detail, as they cover everything from the basic features of the camera to numerous advanced photographic applications. The informative text is illustrated with example images throughout. Readers will learn how to: Control the most basic camera functions-focus and exposure Navigate the camera's menu system Achieve a range of artistic effects using various camera settings Use the camera's automated controls, and override those controls to obtain better exposure Use the GH2 in its video mode to obtain HD videos Post-process images and videos on a computer Expand the camera's use by mounting it on a telescope or microscope And much more...

Dynamics

Engineering Mechanics

Addison Wesley Publishing Company This work and its companion, *Statics*, deliver a consistent problem-solving methodology for statics and present a precise and accurate treatment of the fundamentals of dynamics. Features include: real world applications; chapter openers illustrating an application of the ideas in the chapter; and the use of visualization techniques which isolate the figures which should be studied.

Physical Therapy Perspectives in the 21st Century

Challenges and Possibilities

IntechOpen This book contains new information on physical therapy research and clinical approaches that are being undertaken into numerous medical conditions; biomechanical and musculoskeletal conditions as well as the effects of psychological factors, body awareness and relaxation techniques; specific and specialist exercises for the treatment of scoliosis and spinal deformities in infants and adolescents; new thermal agents are being introduced and different types of physical therapy interventions are being introduced for the elderly both in the home and clinical setting. Additionally research into physical therapy interventions for patients with respiratory, cardiovascular disorders and stroke is being undertaken and new concepts of wheelchair design are being implemented.

Project Management for Engineering, Business and Technology

Routledge **Project Management for Engineering, Business and Technology**, 5th edition, addresses project management across all industries. First covering the essential background, from origins and philosophy to methodology, the bulk of the book is dedicated to concepts and techniques for practical application. Coverage includes project initiation and proposals, scope and task definition, scheduling, budgeting, risk analysis, control, project selection and portfolio management, program management, project organization, and all-important "people" aspects—project leadership, team building, conflict resolution and stress management. The Systems Development Cycle is used as a framework to discuss project management in a variety of situations, making this the go-to book for managing virtually any kind of project, program or task force. The authors focus on the ultimate purpose of project management—to unify and integrate the interests, resources and work efforts of many stakeholders, as well as the planning, scheduling, and budgeting needed to accomplish overall project goals. This new edition features: Updates throughout to cover the latest developments in project management methodologies New examples and 18 new case studies throughout to help students develop their understanding and put principles into practice A new chapter on agile project management and lean Expanded coverage of program management, stakeholder engagement, buffer management, and managing virtual teams and cultural differences in international projects Alignment with PMBOK terms and definitions for ease of use alongside PMI certifications Cross-reference to IPMA, APM, and PRINCE2 methodologies Extensive instructor support materials, including an Instructor's Manual, PowerPoint slides, answers to chapter review questions, problems and cases, and a test bank of questions. Taking a technical yet accessible approach, **Project Management for Business, Engineering and Technology**, 5th edition, is an ideal resource and reference for all advanced undergraduate and graduate students in project management courses as well as for practicing project managers across all industry sectors.

Applied Photographic Optics

Routledge **Selected by the American Library Association's 'Choice' magazine as "best technical book"**, the first edition of this book soon established itself as the standard reference work on all aspects of photographic lenses and associated optical systems. This is unsurprising, as Sidney Ray provides a complete, comprehensive reference source for anyone wanting information on photographic lenses, from the student to the practitioner or specialist working with visual and digital media worldwide. This third edition has been fully revised and expanded to include the rapid progress in the last decade in optical technology and advances in relevant electronic and digital forms of imaging. Every chapter has been revised and expanded using new figures and photographs as appropriate, as well as extended bibliographies. New chapters include details of filters, measurements from images and the optical systems of digital cameras. Details of electronic and digital imaging have been integrated throughout. More information is given on topics such as aspherics, diffractive optics, ED glasses, image stabilization, optical technology, video projection and new types of lenses. A selection of the contents includes chapters on: optical theory, aberrations, auto focus, lens testing, depth of field, development of photographic lenses, general properties of lenses, wide-angle lenses, telephoto lenses, video lenses, viewfinder systems, camera movements, projection systems and 3-D systems.

Landscape Photography

From Snapshots to Great Shots

Peachpit Press **A guide to landscape photography using a DSLR camera covers such topics as light, composition, perspective, lenses, black-and-white images, and HDR.**

The New Art of Photographing Nature

An Updated Guide to Composing Stunning Images of Animals, Nature, and Landscapes

Amphoto Books **A new spin on the classic guide to composing stunning images of nature and wildlife What is the difference between a good picture and a great one? In this fully revised edition of the classic bestseller The Art of Photographing Nature, master photographer Art Wolfe and former Audubon photo editor Martha Hill team up to explain the art of composing images of enduring beauty. Against a backdrop of more than 250 photographs of nature, wildlife, and landscapes, they share insights and advice about what works and what doesn't, and how small changes can take an image from ordinary to extraordinary. Throughout, all-new tips from digital imaging expert Tim Grey show readers how to make the most of digital technology, whether by choosing the right color space, understanding sensor size, or removing distracting elements in post-processing. The result is an invaluable collection of expert advice updated for the modern age.**

Brake Design and Safety

A Dictionary of the English Language

Rel - Zym

Wireless Communication Systems in Matlab

Second Edition (Black & White Print)

*** A learner-friendly, practical and example driven book, Wireless Communication Systems in Matlab gives you a solid background in building simulation models for wireless systems in Matlab. This book, an essential guide for understanding the basic implementation aspects of a wireless system, shows how to simulate and model such a system from scratch. The implemented simulation models shown in this book, provide an opportunity for an engineer to understand the basic implementation aspects of modeling various building blocks of a wireless communication system. It presents the following key topics with the required theoretical background, along with the implementation details in the form of Matlab scripts. * Random variables for simulating probabilistic systems and applications like Jakes filter design and colored noise generation. * Models for Shannon's channel capacity, unconstrained awgn channel, binary symmetric channel (BSC), binary erasure channel (BEC), constellation constrained capacities and ergodic capacity over fading channel. The theory of linear block codes, decoding techniques using soft-decisions and hard-decisions, and their performance simulations. * Monte Carlo simulation for ascertaining performance of digital modulation techniques in AWGN and fading channels - Eb/NO Vs BER curves. Pulse shaping techniques, matched filtering and partial response signaling, Design and implementation of linear equalizers - zero forcing and MMSE equalizers, using them in a communication link and modulation systems with receiver impairments. * Large-scale propagation models like Friis free space model, log distance model, two ray ground reflection model, single knife-edge diffraction model, Hata Okumura model. * Essentials of small-scale propagation models for wireless channels, such as, power delay profile, Doppler**

power spectrum, Rayleigh and Rice processes. Modeling flat fading and frequency selective channels. * Diversity techniques for multiple antenna systems: Alamouti space-time coding, maximum ratio combining, equal gain combining and selection combining. * Simulation models for direct sequence spread spectrum, frequency hopping spread spectrum and OFDM.