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Photographer's Guide to the Sony Rx1r II Street Photography Photographer's Guide to the Sony RX1R II Photographing the Aurora Borealis Photographing the Aurora Borealis Camcorder Maintenance and Repair Reader's Digest Fix-it-yourself Manual The Complete Guide to Sony's RX1R II Camera (B&W Edition) Direct Support and General Support Maintenance Manual Business Today Photographer's Guide to the Sony DSC-RX100 VII Sony A7 Series Numerical Algorithms Popular Photography Handbook of Modern Sensors The Ultimate Guide to Natural Light for Food Photography Applied Digital Signal Processing The Decisive Moment Radio-electronics Global Formulations of Lagrangian and Hamiltonian Dynamics on Manifolds Embedded Systems Architecture Modeling Survival Data: Extending the Cox Model Emerging Infectious Diseases Scheduling Photo Icons. 50 Landmark Photographs and Their Stories Quantum Theory for Mathematicians Financial Asset Pricing Theory MIMO-OFDM Wireless Communications with MATLAB Biomechanics and Motor Control of Human Movement Radio Network Planning and Optimisation for UMTS Applied Computational Economics and Finance Optimal Transport for Applied Mathematicians Secrets of Great Portrait Photography Embedded Computing and Mechatronics with the PIC32 Microcontroller The Potato Crop Report of the Presidential Commission on the Space Shuttle Challenger Accident The Fujifilm X-T1 Photography and the Art of Seeing Yosemite & the Eastern Sierra Popular Photography

Rico Pfisteringer teaches about the little-known capabilities of the X-T1, which he's discovered through months of in-depth research and experimentation. After a brief overview of the its basic functions, he provides a plethora of tips and practical instructions not found in the user's manual. With this knowledge, you will be able to fully exploit the capabilities of this camera. Seven years have passed since the publication of the previous edition of this book. During that time, sensor technologies have made a remarkable leap forward. The sensitivity of the sensors became higher, the dimensions became smaller, the sensitivity became better, and the prices became lower. What have not changed are the fundamental principles of the sensor design. They are still governed by the laws of Nature. Arguably one of the greatest geniuses who ever lived, Leonardo Da Vinci, had his own peculiar way of praying. He was saying, "Oh Lord, thanks for Thou do not violate your own laws." It is comforting indeed that the laws of Nature do not change as time goes by; it is just our appreciation of them that is being renewed. Thus, this new edition examines the same good old laws of Nature that are employed in the designs of various sensors. This has not changed much since the previous edition. Yet, the sections that describe the practical

designs are revised substantially. Recent ideas and developments have been added, and less important and nonessential designs were dropped. Probably the most dramatic recent progress in the sensor technologies relates to wide use of MEMS and MEOMS (micro-electro-mechanical systems and micro-electro-opto-mechanical systems). These are examined in this new edition with greater detail. This book is about devices commonly called sensors. The invention of a microprocessor has brought highly sophisticated instruments into our everyday lives. The classic book on human movement in biomechanics, newly updated Widely used and referenced, David Winter's *Biomechanics and Motor Control of Human Movement* is a classic examination of techniques used to measure and analyze all body movements as mechanical systems, including such everyday movements as walking. It fills the gap in human movement science area where modern science and technology are integrated with anatomy, muscle physiology, and electromyography to assess and understand human movement. In light of the explosive growth of the field, this new edition updates and enhances the text with: Expanded coverage of 3D kinematics and kinetics New materials on biomechanical movement synergies and signal processing, including auto and cross correlation, frequency analysis, analog and digital filtering, and ensemble averaging techniques Presentation of a wide spectrum of measurement and analysis techniques Updates to all existing chapters Basic physical and physiological principles in capsule form for quick reference An essential resource for researchers and student in kinesiology, bioengineering (rehabilitation engineering), physical education, ergonomics, and physical and occupational therapy, this text will also provide valuable to professionals in orthopedics, muscle physiology, and rehabilitation medicine. In response to many requests, the extensive numerical tables contained in Appendix A: "Kinematic, Kinetic, and Energy Data" can also be found at the following Web site:

www.wiley.com/go/biomechanics This book is a complete manual for users of the Sony Cyber-shot DSC-RX100 VII camera, one of the most advanced, but still pocketable, cameras available. With this book, author Alexander White provides users of the RX100 VII with a guide to all aspects of the camera's operation, including its many advanced settings for autofocus and exposure control. Using a tutorial-like approach, the book shows beginning and intermediate photographers how to take still images and record video with the RX100 VII, and explains when and why to use the camera's many features. The book provides details about the camera's automatic and advanced shooting modes, including continuous shooting at rates as fast as 20 frames per second, with short bursts as fast as 90 frames per second, as well as its numerous menu options for shooting, playback, and setup. The book includes information about using Wi-Fi and Bluetooth connections for image transfer, remote control, and adding location information to images. The book has more than 500 color photographs or illustrations that help explain the camera's menus, shooting screens, and features. These images include examples of photographs taken using the RX100 VII's Scene mode, with settings optimized for subjects such as landscapes, sunsets, portraits, low-light, and action shots; and the Creative Style and Picture Effect menu options, with settings that alter the appearance of images. The book also provides introductions to topics such as street photography, astrophotography, and digiscoping, with photographic examples. The book includes a full discussion of the video features of the RX100 VII, which can shoot HD and 4K

(ultra-HD) movies, and which offers manual control of exposure and focus during movie recording. The book explains the camera's numerous features that are useful for professional-level videography, including Picture Profiles that allow adjustment of settings such as gamma curve, black level, knee, and detail. The book provides detailed information about recording 4K video to an external video recorder using the "clean" video output from the camera's HDMI port. In three appendices, the book discusses accessories for the RX100 VII, including cases, power sources, grips, remote controls, and filter adapters, and includes a list of websites and other resources for further information. The book includes an appendix with "quick tips" on how to take advantage of the camera's features in the most efficient ways possible. This guide to the RX100 VII includes a detailed index, so the reader can quickly find needed information about any particular feature or aspect of the camera. Master the basic concepts and methodologies of digital signal processing with this systematic introduction, without the need for an extensive mathematical background. The authors lead the reader through the fundamental mathematical principles underlying the operation of key signal processing techniques, providing simple arguments and cases rather than detailed general proofs. Coverage of practical implementation, discussion of the limitations of particular methods and plentiful MATLAB illustrations allow readers to better connect theory and practice. A focus on algorithms that are of theoretical importance or useful in real-world applications ensures that students cover material relevant to engineering practice, and equips students and practitioners alike with the basic principles necessary to apply DSP techniques to a variety of applications. Chapters include worked examples, problems and computer experiments, helping students to absorb the material they have just read. Lecture slides for all figures and solutions to the numerous problems are available to instructors. This book is a complete guide to using the Sony Cyber-shot DSC-RX1R II camera. With this book, author Alexander White provides users of the RX1R II with a manual covering all aspects of the camera's operation. Using a tutorial-like approach, the book shows beginning and intermediate photographers how to accomplish things with this premium full-frame camera, and explains when and why to use the camera's many features. The book provides details about the camera's shooting modes as well as its menu options for shooting, playback, setup, and special effects. The book covers all of the features of the RX1R II, including its variable low pass filter, fast autofocus system, HD video recording, and features for continuous shooting. The book includes more than 450 color photographs that illustrate the camera's controls, display screens, and menus. The images provide examples of photographs taken using the RX1R II's Scene mode, with settings optimized for subjects such as landscapes, sunsets, portraits, and action shots; and the Creative Style and Picture Effect menu options, with settings for altering the appearance of images. The book also provides introductions to topics such as street photography, astrophotography, and digiscoping. It includes a full discussion of the video features of the RX1R II, which can shoot HD movies with manual control of exposure and focus during movie recording. In three appendices, the book discusses accessories for the RX1R II, including cases, power sources, remote controls, and external flash units, and includes a list of websites and other resources for further information. The book includes an appendix with "quick tips" on how to take advantage of the camera's features in the most efficient

ways possible. This guide to the RX1R II includes a detailed index, so the reader can quickly find needed information about any particular feature or aspect of the camera. Numerous years back while leading an Alaska brown bears workshop, Andy saw some books of aurora borealis images. He was hooked and a winter trip to Alaska to photograph the incredible beauty presented on the pages of those books was soon to follow. Ever since his initial scouting trip he has been leading workshops yearly to the far north to let others see, experience and photograph this amazing phenomenon. While his true love is wildlife, Andy will tell you his favorite thing to see and photograph is the northern lights. His passion of teaching others about the aurora can now reach more people through this book. Come take a journey to see some beautiful shots of the aurora and learn how you can take shots like this when (not if) offered the chance to visit an area where the sky comes alive with color. When you want to experience this, visit Andy's website and sign up for a northern lights workshop and let him take you to the best spots possible and personally teach you. This monograph presents a rigorous mathematical introduction to optimal transport as a variational problem, its use in modeling various phenomena, and its connections with partial differential equations. Its main goal is to provide the reader with the techniques necessary to understand the current research in optimal transport and the tools which are most useful for its applications. Full proofs are used to illustrate mathematical concepts and each chapter includes a section that discusses applications of optimal transport to various areas, such as economics, finance, potential games, image processing and fluid dynamics. Several topics are covered that have never been previously in books on this subject, such as the Knothe transport, the properties of functionals on measures, the Dacorogna-Moser flow, the formulation through minimal flows with prescribed divergence formulation, the case of the supremal cost, and the most classical numerical methods. Graduate students and researchers in both pure and applied mathematics interested in the problems and applications of optimal transport will find this to be an invaluable resource. Numerical Algorithms: Methods for Computer Vision, Machine Learning, and Graphics presents a new approach to numerical analysis for modern computer scientists. Using examples from a broad base of computational tasks, including data processing, computational photography, and animation, the textbook introduces numerical modeling and algorithmic design. For the first time in a single reference, this book provides the beginner with a coherent and logical introduction to the hardware and software of the PIC32, bringing together key material from the PIC32 Reference Manual, Data Sheets, XC32 C Compiler User's Guide, Assembler and Linker Guide, MIPS32 CPU manuals, and Harmony documentation. This book also trains you to use the Microchip documentation, allowing better life-long learning of the PIC32. The philosophy is to get you started quickly, but to emphasize fundamentals and to eliminate "magic steps" that prevent a deep understanding of how the software you write connects to the hardware. Applications focus on mechatronics: microcontroller-controlled electromechanical systems incorporating sensors and actuators. To support a learn-by-doing approach, you can follow the examples throughout the book using the sample code and your PIC32 development board. The exercises at the end of each chapter help you put your new skills to practice. Coverage includes: A practical introduction to the C programming language Getting up and running quickly with the PIC32 An

exploration of the hardware architecture of the PIC32 and differences among PIC32 families Fundamentals of embedded computing with the PIC32, including the build process, time- and memory-efficient programming, and interrupts A peripheral reference, with extensive sample code covering digital input and output, counter/timers, PWM, analog input, input capture, watchdog timer, and communication by the parallel master port, SPI, I2C, CAN, USB, and UART An introduction to the Microchip Harmony programming framework Essential topics in mechatronics, including interfacing sensors to the PIC32, digital signal processing, theory of operation and control of brushed DC motors, motor sizing and gearing, and other actuators such as stepper motors, RC servos, and brushless DC motors For more information on the book, and to download free sample code, please visit <http://www.nu32.org> Extensive, freely downloadable sample code for the NU32 development board incorporating the PIC32MX795F512H microcontroller Free online instructional videos to support many of the chapters Reviews the circumstances surrounding the Challenger accident to establish the probable cause or causes of the accident. Develops recommendations for corrective or other action based upon the Commission's findings and determinations. Color photos, charts and tables. This book is open access under a CC BY 4.0 license. This book provides a fresh, updated and science-based perspective on the current status and prospects of the diverse array of topics related to the potato, and was written by distinguished scientists with hands-on global experience in research aspects related to potato. The potato is the third most important global food crop in terms of consumption. Being the only vegetatively propagated species among the world's main five staple crops creates both issues and opportunities for the potato: on the one hand, this constrains the speed of its geographic expansion and its options for international commercialization and distribution when compared with commodity crops such as maize, wheat or rice. On the other, it provides an effective insulation against speculation and unforeseen spikes in commodity prices, since the potato does not represent a good traded on global markets. These two factors highlight the underappreciated and underrated role of the potato as a dependable nutrition security crop, one that can mitigate turmoil in world food supply and demand and political instability in some developing countries. Increasingly, the global role of the potato has expanded from a profitable crop in developing countries to a crop providing income and nutrition security in developing ones. This book will appeal to academics and students of crop sciences, but also policy makers and other stakeholders involved in the potato and its contribution to humankind's food security. Embedded Systems Architecture is a practical and technical guide to understanding the components that make up an embedded system's architecture. This book is perfect for those starting out as technical professionals such as engineers, programmers and designers of embedded systems; and also for students of computer science, computer engineering and electrical engineering. It gives a much-needed 'big picture' for recently graduated engineers grappling with understanding the design of real-world systems for the first time, and provides professionals with a systems-level picture of the key elements that can go into an embedded design, providing a firm foundation on which to build their skills. Real-world approach to the fundamentals, as well as the design and architecture process, makes this book a popular reference for the daunted or the inexperienced: if in doubt, the answer is in here! Fully updated with new coverage of FPGAs,

testing, middleware and the latest programming techniques in C, plus complete source code and sample code, reference designs and tools online make this the complete package Visit the companion web site at <http://booksite.elsevier.com/9780123821966/> for source code, design examples, data sheets and more A true introductory book, provides a comprehensive get up and running reference for those new to the field, and updating skills: assumes no prior knowledge beyond undergrad level electrical engineering Addresses the needs of practicing engineers, enabling it to get to the point more directly, and cover more ground. Covers hardware, software and middleware in a single volume Includes a library of design examples and design tools, plus a complete set of source code and embedded systems design tutorial materials from companion website This new edition of the well established text Scheduling - Theory, Algorithms, and Systems provides an up-to-date coverage of important theoretical models in the scheduling literature as well as significant scheduling problems that occur in the real world. It again includes supplementary material in the form of slide-shows from industry and movies that show implementations of scheduling systems. The main structure of the book as per previous edition consists of three parts. The first part focuses on deterministic scheduling and the related combinatorial problems. The second part covers probabilistic scheduling models; in this part it is assumed that processing times and other problem data are random and not known in advance. The third part deals with scheduling in practice; it covers heuristics that are popular with practitioners and discusses system design and implementation issues. All three parts of this new edition have been revamped and streamlined. The references have been made completely up-to-date. Theoreticians and practitioners alike will find this book of interest. Graduate students in operations management, operations research, industrial engineering, and computer science will find the book an accessible and invaluable resource. Scheduling - Theory, Algorithms, and Systems will serve as an essential reference for professionals working on scheduling problems in manufacturing, services, and other environments. Reviews of third edition: This well-established text covers both the theory and practice of scheduling. The book begins with motivating examples and the penultimate chapter discusses some commercial scheduling systems and examples of their implementations." (Mathematical Reviews, 2009) Featuring images by outdoor photographer Gary Crabbe, this book takes a fresh look at Yosemite National Park, as well as the lesser known vistas of the pristine wilderness that adjoin the eastern slopes of the Sierra Nevada. The accompanying text speaks through the voices of artists & writers from Ansel Adams to Mark Twain. One of the most famous books in the history of photography, this volume assembles Cartier-Bresson's best work from his early years. Explains how camcorders work, offers advice on troubleshooting, and explains how to make basic repairs This book is a complete guide to using the Sony Cyber-shot DSC-RX1R II camera. With this book, author Alexander White provides users of the RX1R II with a manual covering all aspects of the camera's operation. Using a tutorial-like approach, the book shows beginning and intermediate photographers how to accomplish things with this premium full-frame camera, and explains when and why to use the camera's many features. The book provides details about the camera's shooting modes as well as its menu options for shooting, playback, setup, and special effects. The book covers all of the features of the RX1R II, including its variable low pass filter,

fast autofocus system, HD video recording, and features for continuous shooting. The book includes more than 450 color photographs that illustrate the camera's controls, display screens, and menus. The images provide examples of photographs taken using the RX1R II's Scene mode, with settings optimized for subjects such as landscapes, sunsets, portraits, and action shots; and the Creative Style and Picture Effect menu options, with settings for altering the appearance of images. The book also provides introductions to topics such as street photography, astrophotography, and digiscoping. It includes a full discussion of the video features of the RX1R II, which can shoot HD movies with manual control of exposure and focus during movie recording. In three appendices, the book discusses accessories for the RX1R II, including cases, power sources, remote controls, and external flash units, and includes a list of websites and other resources for further information. The book includes an appendix with "quick tips" on how to take advantage of the camera's features in the most efficient ways possible. This guide to the RX1R II includes a detailed index, so the reader can quickly find needed information about any particular feature or aspect of the camera. On cover: How to repair, clean, and maintain anything and everything in and around your home. MIMO-OFDM is a key technology for next-generation cellular communications (3GPP-LTE, Mobile WiMAX, IMT-Advanced) as well as wireless LAN (IEEE 802.11a, IEEE 802.11n), wireless PAN (MB-OFDM), and broadcasting (DAB, DVB, DMB). In MIMO-OFDM Wireless Communications with MATLAB®, the authors provide a comprehensive introduction to the theory and practice of wireless channel modeling, OFDM, and MIMO, using MATLAB® programs to simulate the various techniques on MIMO-OFDM systems. One of the only books in the area dedicated to explaining simulation aspects Covers implementation to help cement the key concepts Uses materials that have been classroom-tested in numerous universities Provides the analytic solutions and practical examples with downloadable MATLAB® codes Simulation examples based on actual industry and research projects Presentation slides with key equations and figures for instructor use MIMO-OFDM Wireless Communications with MATLAB® is a key text for graduate students in wireless communications. Professionals and technicians in wireless communication fields, graduate students in signal processing, as well as senior undergraduates majoring in wireless communications will find this book a practical introduction to the MIMO-OFDM techniques. Instructor materials and MATLAB® code examples available for download at www.wiley.com/go/chomimo Photographs have a strange and powerful way of shaping the way we see the world and influencing our perceptions of reality. To demonstrate the unique and profound influence on culture and society that photographs have, Photo Icons puts the most important landmarks in the history of photography under the microscope. In this detailed and easy-to-read reference, professional photographers Gary L. Friedman and Ross Warner spell out the nuances of every feature for both beginning and experienced photographers. Get the most out of your camera from the most highly-acclaimed author of books for the Sony cameras! Instantly-downloadable electronic formats are also available from the author's website. A practical and inspiring guide. This Third Edition familiarizes readers with the traditional principles of composition and visual design. The jargon-free text provides practical techniques and innovative exercises for breaking with traditional concepts of design to enable the photographer to develop a keen

awareness of subject matter and a personal direction. Topics include: Barriers to seeing Learning to observe: rethinking the familiar Learning to imagine: abstracting and selecting Learning to express: Subject matter and the photographer Elements and principles of visual design and more. This edition of *Photography and the Art of Seeing* is updated to include technical guidelines adapted for both digital and film photographers and includes photographs from Freeman Patterson's personal collection. Extended captions include valuable technical information and personal commentary reflective of the superb craftsmanship and stunning photography from one of the most highly acclaimed and celebrated photographers worldwide. This book is for statistical practitioners, particularly those who design and analyze studies for survival and event history data. Building on recent developments motivated by counting process and martingale theory, it shows the reader how to extend the Cox model to analyze multiple/correlated event data using marginal and random effects. The focus is on actual data examples, the analysis and interpretation of results, and computation. The book shows how these new methods can be implemented in SAS and S-Plus, including computer code, worked examples, and data sets. In this sexy, bold book, Pulitzer-Prize winning photographer Brian Smith tells the stories behind the photos and lessons learned in 30 years of photographing celebrities and people from all walks of life. Smith's long list of famous and infamous subjects includes pro basketball players Dwayne Wade and Shaquille O'Neal; billionaires Bill Gates, Richard Branson, and Donald Trump; tennis stars Serena and Venus Williams; actors Anne Hathaway, Antonio Banderas, Christopher Walken, Taye Diggs, Jane Krakowski, and William H. Macy; and many more. You'll get the inside scoop on what goes on at a celebrity photo shoot in this gorgeous guide to making professional portraits. Smith has mastered how to make a meaningful portrait on a magazine's budget and on a celebrity's schedule, which can sometimes be 15 minutes or less. Smith reveals his tips on connecting with people, finding the perfect location, telling a great story through portraiture, getting the ideal pose, capturing emotion and gestures, arranging unique group shots, and lighting the scene just right. You might not be photographing the rich and famous, but after reading Smith's tell-all guide, you'll know how to give everyone who makes their way in front of your camera the star treatment. Award-winning photographer and accomplished instructor Andy Long provides a comprehensive guide to photographing the Aurora Borealis. It, readers will learn everything they need to know about photographing this phenomenon—along with some very special techniques designed to help kick their image-making up to the next level. Long covers all the details from simply understanding the aurora and figuring out when and where to shoot, to picking the right gear to maximize your success, to processing your digital files after the shoot too maximize your results. You'll learn how to capture the moon, star trails, and Milky Way in your images of the aurora—and even how to produce dazzling time-lapse images. Also covered are practical matters, like coping with long, cold, night-time shoots (and the equipment problems that can accompany them) and optimizing camera settings to reduce noise, maximize detail, and enhance/downplay lens distortion. To Andrew “Fundy” Funderburg, street photography means hitting the streets with a simple camera (or even a phone) and capturing everyday life. To do it well, the photographer has to be part of the action—part of the moment. He or she must be willing to be yelled at, and brave enough to pick up

that camera and point it at a stranger. And when the moment is perfect, magic happens; the viewer can see into the moment and the soul of the person in the photograph, and that split-second exposure becomes a slice of history, frozen in time. In addition to being an artform, however, street photography has the power to preserve the history of a city or neighborhood and bring its citizens together. It has the power to save the story of the time, place, and people—and sometimes even prove the value of a place that is worthy of preservation. After all, it's not usually the people going to work in giant office buildings that give a place its character—it's the bartenders, the waiters, the street vendors, the lifetime residents, and even the homeless characters that make a town truly come alive.

Financial Asset Pricing Theory offers a comprehensive overview of the classic and the current research in theoretical asset pricing. Asset pricing is developed around the concept of a state-price deflator which relates the price of any asset to its future (risky) dividends and thus incorporates how to adjust for both time and risk in asset valuation. The willingness of any utility-maximizing investor to shift consumption over time defines a state-price deflator which provides a link between optimal consumption and asset prices that leads to the Consumption-based Capital Asset Pricing Model (CCAPM). A simple version of the CCAPM cannot explain various stylized asset pricing facts, but these asset pricing 'puzzles' can be resolved by a number of recent extensions involving habit formation, recursive utility, multiple consumption goods, and long-run consumption risks. Other valuation techniques and modelling approaches (such as factor models, term structure models, risk-neutral valuation, and option pricing models) are explained and related to state-price deflators. The book will serve as a textbook for an advanced course in theoretical financial economics in a PhD or a quantitative Master of Science program. It will also be a useful reference book for researchers and finance professionals. The presentation in the book balances formal mathematical modelling and economic intuition and understanding. Both discrete-time and continuous-time models are covered. The necessary concepts and techniques concerning stochastic processes are carefully explained in a separate chapter so that only limited previous exposure to dynamic finance models is required. Do you compare your images to stunning feeds on Instagram and cringe? Do you wish your food shots could look as good as they taste? This book will help to transform your food photography images from YUCK to YUM! Smart phone photographers and SLR shooters alike can utilise this comprehensive handbook to take a giant leap forward.

Radio Network Planning and Optimisation for UMTS, Second Edition, is a comprehensive and fully updated introduction to WCDMA radio access technology used in UMTS, featuring new content on key developments. Written by leading experts at Nokia, the first edition quickly established itself as a best-selling and highly respected book on how to dimension, plan and optimise UMTS networks. This valuable text examines current and future radio network management issues and their impact on network performance as well as the relevant capacity and coverage enhancement methods. In addition to coverage of WCDMA radio access technology used in UMTS, and the planning and optimisation of such a system, the service control and management concept in WCDMA and GPRS networks are also introduced. This is an excellent source of information for those considering future cellular networks where Quality of Service (QoS) is of paramount importance. Key features of the Second Edition include: High-Speed

Downlink Packet Access (HSDPA) – physical layer, dimensioning and radio resource management Quality of Service (QoS) mechanisms in network for service differentiation Multiple Input – Multiple Output (MIMO) technology Practical network optimisation examples Service optimisation for UMTS and GPRS/EDGE capacity optimisation The ‘hot topic’ of service control and management in WCDMA and GPRS networks, that has evolved since the first edition Companion website includes: Figures Static radio network simulator implemented in MATLAB® This text will have instant appeal to wireless operators and network and terminal manufacturers. It will also be essential reading for undergraduate and postgraduate students, frequency regulation bodies and all those interested in radio network planning and optimisation, particularly RF network systems engineering professionals. Although ideas from quantum physics play an important role in many parts of modern mathematics, there are few books about quantum mechanics aimed at mathematicians. This book introduces the main ideas of quantum mechanics in language familiar to mathematicians. Readers with little prior exposure to physics will enjoy the book's conversational tone as they delve into such topics as the Hilbert space approach to quantum theory; the Schrödinger equation in one space dimension; the Spectral Theorem for bounded and unbounded self-adjoint operators; the Stone–von Neumann Theorem; the Wentzel–Kramers–Brillouin approximation; the role of Lie groups and Lie algebras in quantum mechanics; and the path-integral approach to quantum mechanics. The numerous exercises at the end of each chapter make the book suitable for both graduate courses and independent study. Most of the text is accessible to graduate students in mathematics who have had a first course in real analysis, covering the basics of L^2 spaces and Hilbert spaces. The final chapters introduce readers who are familiar with the theory of manifolds to more advanced topics, including geometric quantization. Now that you've bought the amazing Sony a7 series camera, you need a book that goes beyond a tour of the camera's features to show you exactly how to use the camera to take great pictures. With Sony a7 Series: From Snapshots to Great Shots, you get the perfect blend of photography instruction and camera reference that will take your images to the next level! Beautifully illustrated with large, vibrant photos, this book teaches you how to take control of your photography to get the image you want every time you pick up the camera. Follow along with your friendly and knowledgeable guide, Pulitzer Prize--winning photographer and author Brian Smith, and you will: Learn the top ten things you need to know about shooting with the Sony a7 series cameras Learn to use the camera's advanced camera settings to gain full control over the look and feel of your images Master the photographic basics of composition, focus, depth of field, and much more Learn all the best tricks and techniques for getting great action shots, landscapes, and portraits Find out how to get great photos in low light Learn the basics behind shooting video with your a7 series camera and start making movies of your own Understand the nuances of your menu settings and how to customize your camera Learn more about lens mount adapters, creative compositions, and accessories through three downloadable bonus chapters Grasp all the concepts and techniques as you go, with assignments at the end of every chapter And once you've got the shot, show it off! Join the book's Flickr group, share your photos, and discuss how you use your camera to get great shots at [flickr.com/groups/sonya7-a7rfromsnapshotstogreatshots](https://www.flickr.com/groups/sonya7-a7rfromsnapshotstogreatshots). This book presents a variety of computational

methods used to solve dynamic problems in economics and finance. It emphasizes practical numerical methods rather than mathematical proofs and focuses on techniques that apply directly to economic analyses. The examples are drawn from a wide range of subspecialties of economics and finance, with particular emphasis on problems in agricultural and resource economics, macroeconomics, and finance. The book also provides an extensive Web-site library of computer utilities and demonstration programs. The book is divided into two parts. The first part develops basic numerical methods, including linear and nonlinear equation methods, complementarity methods, finite-dimensional optimization, numerical integration and differentiation, and function approximation. The second part presents methods for solving dynamic stochastic models in economics and finance, including dynamic programming, rational expectations, and arbitrage pricing models in discrete and continuous time. The book uses MATLAB to illustrate the algorithms and includes a utilities toolbox to help readers develop their own computational economics applications. This book provides an accessible introduction to the variational formulation of Lagrangian and Hamiltonian mechanics, with a novel emphasis on global descriptions of the dynamics, which is a significant conceptual departure from more traditional approaches based on the use of local coordinates on the configuration manifold. In particular, we introduce a general methodology for obtaining globally valid equations of motion on configuration manifolds that are Lie groups, homogeneous spaces, and embedded manifolds, thereby avoiding the difficulties associated with coordinate singularities. The material is presented in an approachable fashion by considering concrete configuration manifolds of increasing complexity, which then motivates and naturally leads to the more general formulation that follows. Understanding of the material is enhanced by numerous in-depth examples throughout the book, culminating in non-trivial applications involving multi-body systems. This book is written for a general audience of mathematicians, engineers, and physicists with a basic knowledge of mechanics. Some basic background in differential geometry is helpful, but not essential, as the relevant concepts are introduced in the book, thereby making the material accessible to a broad audience, and suitable for either self-study or as the basis for a graduate course in applied mathematics, engineering, or physics.

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