[MOBI] Canon Gl2 User Guide

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Emerging Technologies for Food Quality and Food Safety Evaluation-Yong-Jin Cho 2011-03-09 Even though the perception of food quality may depend on its hedonic and often subjective attributes, it is essential to quantitatively evaluate its quality and safety. Fortunately, the advent of sophisticated systems, including nondestructive testing techniques, has made it possible to definitively evaluate food quality. Reflecting these advances,

The Ultimate Guide to Crossbow Hunting-Joe Byers 2016-10-25 Get in on the hunting method sweeping the nation. The Ultimate Guide to Crossbow Hunting offers everything you need to know about the sport and its gear, from acquiring a bow to hunting popular big game animals. With this book, you will learn how to select a bow, which bolts are best, plus all there is to know about broadheads, scopes, and other gear. Travel with author Joe Byers to Alaska for wild caribou and Africa for the largest of plains game with hunting tips from Michael Waddell, Will Primos, Bill Jordan, and many others. Learn how to grow your own trophy bucks, hunt huge antlers in the suburbs, and outsmart the wiliest of black bears. In The Ultimate Guide to Crossbow Hunting, Joe Byers examines all things crossbow hunting. Other topics covered include: Myths and misconceptions Crossbow safety Sighting for success The best bolt for your bow Black bear how-to And much more. This exhaustive guide provides a look into the history of archery, tips for hunting all types of game, and, of course, advice on buying and using crossbow equipment. With the Ultimate Guide to Crossbow Hunting, you'll be able to hunt the whole season! Skyhorse Publishing is proud to publish a broad range of books for hunters and firearms enthusiasts. We publish books about shotguns, rifles, handguns, target shooting, gun collecting, self-defense, archery, ammunition, knives, gunsmithing, gun repair, and wilderness survival. We publish books on deer hunting, big game hunting, small game hunting, wing shooting, turkey hunting, deer stands, duck blinds, bowhunting, wing shooting, hunting dogs, and more. While not every title we publish becomes a New York Times bestseller or a national bestseller, we are committed to publishing books on subjects that are sometimes overlooked by other publishers and to authors whose work might not otherwise find a home.

Hands-on Guide to Webcasting-Steve Mack 2006 In "The Hands on Guide to Live Webcasting," industry experts address the fastest-growing application for streaming media in all environments from corporations to educational applications--and teach you how to effectively reach your audience. By providing an end-to-end technical overview of the webcasting process, this guide provides both the depth and breadth necessary for mastery of the subject. Webcasting can save valuable resources but many consumers would rather suffer the consequences than attempt to decipher the little information heretofore available on the subject. Now, in one authoritative guide, lies all the answers to saving money, time, and space for your enterprise through webcasting. * Helps you to reach more people, more effectively * This book features the triple threat--breadth, depth, and authority * Step-by-step instructions and advice unique to the technical and business challenges of webcasting * Case studies explore webcasting in corporate, educational, institutional, and consumer environments

Digital Video Pocket Guide-Derrick Story 2003 A guide to digital camcorders introduces the artistic and technical aspects of the filmmaking process, discussing camera controls, lighting, audio, and the use of the personal computer for professional-looking editing.

American Cinematographer- 2007

Sound & Vision- 2002

Mediabistro.com Presents Small Screen, Big Picture-Chad Gervich 2008-11-25 Take On Hollywood and Make It as a Television Writer. From mediabistro.com, the media industry's most well-respected source for jobs, professional development, and community, this inside-the-business guide gives you the knowledge and tools you need to infiltrate Hollywood and land a job as a TV writer. That's right—Small Screen, Big Picture gives you a competitive edge over millions of other aspiring writers who share your talent, creativity, and determination . . . because after reading these pages, you'll have the one thing they lack: an understanding of the business of television. This journey into Hollywood's inner workings not only details how networks, studios, and production companies work together, it teaches you how the process affects the creation and writing of TV series, how shows make money, and—ultimately—how you can use this information to break into the industry. You'll learn: • What really goes on in the inner sanctum of the writers' room—and how to be a part of it • How today's TV business model works—and how rapidly it's changing • Who has the power to buy a show idea—and how to pitch your own • How new media formats are changing television—and how to use them to your advantage • Which jobs will kick-start your TV writing career—and how to get hired • And much more . . . Armed with this solid foundation of knowledge, you'll be ready to plan your entry into the industry and begin your successful TV writing career.

DV 101-Jan Ozer 2005 Corporations, government offices, and academic institutions have long used video to educate and inform. The only thing that's changed is the people who are producing them: With low-priced equipment and easy-to-use software flooding the market, now you're the person behind the camera, not some high-priced video specialist! This is the guide for you, then-and all of the other nonprofessionals who've been called upon to produce top-quality videos. Long on essentials-like where to place the camera, how to connect microphones, and which font to use in titles-and short on theory, this guide focuses instead on the simple steps and best practices needed to produce great videos. Veteran author Jan Ozer gives you the lowdown on shooting, audio, and lighting before describing the workflow and procedures involved in converting raw DV footage to streaming video and DVDs, and distributing the final product. For software-specific guidance, you can purchase downloadable PDF workbooks that use the book's projects to walk you through the production process.

Pinnacle Studio 10 for Windows-Jan Ozer 2006 Pinnacle Studio 10 is the latest version of the industry leading home video editing tool aimed at the Windows consumer market. In Pinnacle Studio 10 for Windows: Visual QuickStart Guide, veteran journalist and teacher Jan Ozer tackles Pinnacle Studio version 10 in classic and popular QuickStart style--with step-by-step instructions, plenty of illustrations, and straightforward language. Jan provides the skinny on all popular Studio 10 features like built-in DVD authoring with motion menus and custom navigation; Pan and Zoom, enabling users to quickly create engaging video slideshows from digital photos; SmartMovie II, a tool that let's you create home movies in minutes; dual monitor display; key framing special effects in real-time; and the Instant DVD Recorder. He also covers key Pinnacle Studio Plus 10 features including picture in picture (PIP); Chroma Key effects (green screen); and full HD editing, particularly creating HD slide shows from digital photos.

High-Dimensional Probability-Roman Vershynin 2018-09-30 High-dimensional probability offers insight into the behavior of random vectors, random matrices, random subspaces, and objects used to quantify uncertainty in high dimensions. Drawing on ideas from probability, analysis, and geometry, it lends itself to applications in mathematics, statistics, theoretical computer science, signal processing, optimization, and more. It is the first to integrate theory, key tools, and modern applications of high-dimensional probability. Concentration inequalities form the core, and it covers both classical results such as Hoeffding's and Chernoff's inequalities and modern developments such as the matrix Bernstein's inequality. It then introduces the powerful methods based on stochastic processes, including such tools as Slepian's, Sudakov's, and Dudley's inequalities, as well as generic chaining and bounds based on VC dimension. A broad range of illustrations is embedded throughout, including classical and modern results for covariance estimation, clustering, networks, semidefinite programming, coding, dimension reduction, matrix completion, machine learning, compressed sensing, and sparse regression.

Hearts and Minds-Thomas David Kehoe 2003 Mammals raising their young evolved brains hardwired for emotional relationships. Around this mammalian core, humans evolved a new, larger brain for abstract thinking. Too often our

abstract thinking gets in the way of emotionally connecting with other people. Hearts and Minds shows you how to improve your relationships by integrating these different brain systems. Plus, you'll find: The best places to meet single men and women (page 93). How young men and women fall in love with mirrors of themselves (page 74), when mature men and women love their real partners, including accepting their faults (page 83). How switching gender roles moves dating into a committed relationship (page 139). How to use conflicts to strengthen a relationship (page 146).

Making DVDs-Lee Purcell 2004 PERFECT FOR FIRST-TIMERS WHO DEMAND PROFESSIONAL RESULTS This easy-to-use guide can help any savvy computer user master DVD creation, from zero to done. "Making DVDs" covers the process from planning to development to burning a disc. Through real-world case studies from some of the luminaries in the DVD field, this book guides you past the pitfalls and helps you reach an audience with your work. The video segments on disc illustrate high-caliber MPEG-2 material from sources such as DV camcorders, DigiBeta camcorders, and 35mm film. START CREATING DVDs NOW! "Making DVDs" helps you: * Put your band, independent film, documentary, training program, 'zine, or any audio/video project on a pro-quality DVD * Develop a working plan for your DVD project * Gain the best results from your digital video equipment * Learn techniques for converting different source materials to DVD formats * Optimize video compression for pro results * Find out how to fund and promote a DVD magazine on disc * Learn how the experts use nonlinear editing tools * Polish your DVD presentation with top-notch menus * Compare the benefits of duplication and replication * Discover money-making opportunities in DVD sales and distribution * Tap into the energy of the fastest-growing entertainment medium of all time: DVD * And much, much more!

PC Magazine- 2005-05

Crop Modeling and Decision Support-Weixing Cao 2010-07-10 "Crop Modeling and Decision Support" presents 36 papers selected from the International Symposium on Crop Modeling and Decision Support (ISCMDS-2008), held at Nanjing of China from 19th to 22nd in April, 2008. Many of these papers show the recent advances in modeling crop and soil processes, crop productivity, plant architecture and climate change; the rests describe the developments in model-based decision support systems (DSS), model applications, and integration of crop models with other information technologies. The book is intended for researchers, teachers, engineers, and graduate students on crop modeling and decision support. Dr. Weixing Cao is a professor at Nanjing Agricultural University, China.

Mac Design Magazine- 2003

Release Print- 2005

Lecture Notes in Algebraic Topology-James Frederic Davis 2001 The amount of algebraic topology a graduate student specializing in topology must learn can be intimidating. Moreover, by their second year of graduate studies, students must make the transition from understanding simple proofs line-by-line to understanding the overall structure of proofs of difficult theorems. To help students make this transition, the material in this book is presented in an increasingly sophisticated manner. It is intended to bridge the gap between algebraic and geometric topology, both by providing the algebraic tools that a geometric topologist needs and by concentrating on those areas of algebraic topology that are geometrically motivated. Prerequisites for using this book include basic set-theoretic topology, the definition of CW-complexes, some knowledge of the fundamental group/covering space theory, and the construction of singular homology. Most of this material is briefly reviewed at the beginning of the book. The topics discussed by the authors include typical material for first- and second-year graduate courses. The core of the exposition consists of chapters on homotopy groups and on spectral sequences. There is also material that would interest students of geometric topology (homology with local coefficients and obstruction theory) and algebraic topology (spectra and generalized homology), as well as preparation for more advanced topics such as algebraic K-theory and the s-cobordism theorem. A unique feature of the book is the inclusion, at the end of each chapter, of several projects that require students to present proofs of substantial theorems and to write notes accompanying their explanations. Working on these projects allows students to grapple with the ``big picture'', teaches them how to give mathematical lectures, and prepares them for participating in research seminars. The book is designed as a textbook for graduate students studying algebraic and geometric topology and homotopy theory. It will also be useful for students from other fields such as differential geometry, algebraic geometry, and homological algebra. The exposition in the text is clear; special cases are presented over complex general statements.

Introduction to Representation Theory-Pavel I. Etingof 2011 Very roughly speaking, representation theory studies symmetry in linear spaces. It is a beautiful mathematical subject which has many applications, ranging from number theory and combinatorics to geometry, probability theory, quantum mechanics, and quantum field theory. The goal of this book is to give a ``holistic'' introduction to representation theory, presenting it as a unified subject which studies representations of associative algebras and treating the representation theories of groups, Lie algebras, and quivers as special cases. Using this approach, the book covers a number of standard topics in the representation theories of these structures. Theoretical material in the book is supplemented by many problems and exercises which touch upon a lot of additional topics; the more difficult exercises are provided with hints. The book is designed as a textbook for advanced undergraduate and beginning graduate students. It should be accessible to students with a strong background in linear algebra and a basic knowledge of abstract algebra.

PC MagazineGuide to Digital Video-Jan Ozer 2003-12-05 What does it take to make great digital video? The right equipment, the right skills, and Jan Ozer's advice. PC Magazine's digital video authority delivers the details that will help you make videos you can be proud of. Here's the lowdown on which camera to choose (and why), how to shoot the best footage, how to capture the best sound, how to get your video from the camera to your computer, what to do when you get it there, and how to produce a showstopper from start to finish. Author Jan Ozer offers expert advice on: Deciding what you do and don't need in a digital camcorder Selecting a DV or analog capture solution Picking the perfect video editor Getting the right DVD-authoring package and recorder Shooting terrific footage and capturing sound that's just right Outputting your project in various formats And producing professional-quality DVDs The book's CD-ROM includes audio and video files comparing consumer and prosumer camcorders and demonstrating techniques like noise removal; MyDV D, Pinnacle Studio, Ulead Video Studio, RealONE Player, muvee auto Producer trial versions, and more.

Pinnacle Studio 11 for Windows-Jan Ozer 2007-11-06 Pinnacle Studio 11 is the latest version of the industry leading home video editing tool aimed at the Windows consumer market. In Pinnacle Studio 11 for Windows: Visual QuickStart Guide, veteran journalist and teacher Jan Ozer tackles Pinnacle Studio version 11 in classic and popular QuickStart style--with step-by-step instructions, plenty of illustrations, and straightforward language. Jan provides the skinny on all popular Studio 11 features like HD capture, editing and disc burning: Pinnacle Studio Plus edits native HDV or AVCHD footage and then authors HD DVD format discs that will play on the latest HD players; the new Scorefitter music generator which automatically generates soundtracks with 40 source tracks; new simplified web publishing features where users can now automatically post movies publicly on Yahoo! Videos and more.

Foundations of Quantum Theory-Klaas Landsman 2017-05-11 This book studies the foundations of quantum theory through its relationship to classical physics. This idea goes back to the Copenhagen Interpretation (in the original version due to Bohr and Heisenberg), which the author relates to the mathematical formalism of operator algebras originally created by von Neumann. The book therefore includes comprehensive appendices on functional analysis and C*-algebras, as well as a briefer one on logic, category theory, and topos theory. Matters of foundational as well as mathematical interest that are covered in detail include symmetry (and its "spontaneous" breaking), the measurement problem, the Kochen-Specker, Free Will, and Bell Theorems, the Kadison-Singer conjecture, quantization, indistinguishable particles, the quantum theory of large systems, and quantum logic, the latter in connection with the topos approach to quantum theory. This book is Open Access under a CC BY licence.

The Official Railway Guide- 1894-01

Good Pub Guide 2007-Alisdair Aird 2006-10 This is a county by county reference containing the latest information on over 5000 recommended pubs in England, Scotland, Wales and the Channel Islands. Many entries include detailed descriptions of personally assessed pubs.

Experimental Mathematics in Action-David Bailey 2007-05-31 With the continued advance of computing power and accessibility, the view that "real mathematicians don't compute" no longer has any traction for a newer generation of mathematicians. The goal in this book is to present a coherent variety of accessible examples of modern mathematics where intelligent computing plays a significant role and in so doi

Berkeley Lectures on p-adic Geometry-Peter Scholze 2020-05-26 Berkeley Lectures on p-adic Geometry presents an important breakthrough in arithmetic geometry. In 2014, leading mathematician Peter Scholze delivered a series of lectures at the University of California, Berkeley, on new ideas in the theory of p-adic geometry. Building on his discovery of perfectoid spaces, Scholze introduced the concept of "diamonds," which are to perfectoid spaces what algebraic spaces are to schemes. The introduction of diamonds, along with the development of a mixed-characteristic shtuka, set the stage for a critical advance in the discipline. In this book, Peter Scholze and Jared Weinstein show that the moduli space of mixed-characteristic shtukas is a diamond, raising the possibility of using the cohomology of such spaces to attack the Langlands conjectures for a reductive group over a p-adic field. This book follows the informal

style of the original Berkeley lectures, with one chapter per lecture. It explores p-adic and perfectoid spaces before laying out the newer theory of shtukas and their moduli spaces. Points of contact with other threads of the subject, including p-divisible groups, p-adic Hodge theory, and Rapoport-Zink spaces, are thoroughly explained. Berkeley Lectures on p-adic Geometry will be a useful resource for students and scholars working in arithmetic geometry and number theory.

Digital Video For Dummies-Keith Underdahl 2006-05-15 So you have a camcorder and visions of being the next Spielberg. But how do you progress from shooting so-so footage to showing your own finished movie? Digital Video For Dummies, 4th Edition gives you the know-how and the show-how! Find out how to shoot and edit great movies, using iMovie, Windows Movie Maker, or Adobe Premiere Elements to add the finishing touches like special effects and your own soundtrack. With the latest information and lots of illustrations and screen shots, this friendly guide walks you through: Getting your computer ready to work with digital video (complete with information about FireWire) Choosing a camcorder, including features to look for and features that are useless Digitizing old VHS videotapes to preserve memories Purchasing other movie making gear, including audio and lighting equipment Shooting better video, with tips on lighting, panning, using the zoom, and recording better audio Creating your own sound effects such as footsteps, bones breaking, fire, thunder, insects buzzing, and more Capturing digital video using iMovie, Windows Movie Marker, or Premiere Elements Editing, including understanding timecode, organizing and previewing clips, and assembling clips in Storyboard and Timeline Adding transitions, titles, and special effects Importing and integrating video from phones and digital cameras Using audio rubberbands in iMovie, Premiere Elements, and other editing programs Adding narration, importing and working with CD audio, and adding a music soundtrack Keith Underdahl has extensive professional video production experience developing kiosk and marketing videos for Ages Software. Realizing that you'll want to polish and premiere your movie, he includes information on: More advanced video editing, including animating video clips, improving light and color, compositing video (bluescreen or greenscreen), and more 13 categories of video effects, ranging from blur and sharpen to transform Working with still photos and graphics Sharing your video online using QuickTime (/QT), RealMedia (.RM), or Windows Media Video (.WMV) Making tapes or burning DVDs in 9 steps With a handy cheat sheet of keyboard shortcuts, a chart comparing 10 video editing programs, a glossary, and more, with this guide you'll soon be saying "Lights, camera, action" and producing your own movie attraction.

Mac 911-Christopher Breen 2002-01-01 This easy-to-use guide covers troubleshooting tips and tricks for Mac hardware and software, written by the well-known Macworld columnist and Macintosh guru Chris Breen. The book contains troubleshooting tips and techniques for both Mac OS 9 and OS X, and additional projects for making a Macintosh more productive-sharing files, making Mac OS X work more like Mac OS 9, and more.

Biology, Ecology and Management of Aquatic Plants-Joseph Caffrey 2013-04-17 There is a growing need for appropriate management of aquatic plants in rivers and canals, lakes and reservoirs, and drainage channels and urban waterways. This management must be based on a sound knowledge of the ecology of freshwater plants, their distribution and the different forms of control available including chemical and physical, and biological and biomanipulation. This series of papers from over 20 different countries was generated from the tenth in the highly successful series of European Weed Research Society symposia on aquatic plant management, this being the tenth. It provides a valuable insight into the complexities involved in managing aquatic systems, discusses state-of-the-art control techniques and deals with patterns of regrowth and recovery post-management. Careful consideration is given to the use of chemicals, a practice which has come under scrutiny in recent years. Underpinning the development of such control techniques is a growing body of knowledge relating to the biology and ecology of water plants. The authorship of the papers represents the collective wisdom of leading scientists and experts from fisheries agencies, river authorities, nature conservation agencies, the agrochemical industry and both governmental and non-governmental organisations.

Topological Modular Forms- Christopher L. Douglas 2014-12-04 The theory of topological modular forms is an intricate blend of classical algebraic modular forms and stable homotopy groups of spheres. The construction of this theory combines an algebro-geometric perspective on elliptic curves over finite fields with techniques from algebraic topology, particularly stable homotopy theory. It has applications to and connections with manifold topology, number theory, and string theory. This book provides a careful, accessible introduction to topological modular forms. After a brief history and an extended overview of the subject, the book proper commences with an exposition of classical aspects of elliptic cohomology, including background material on elliptic curves and modular forms, a description of the moduli stack of elliptic curves, an explanation of the exact functor theorem for constructing cohomology theories, and an exploration of sheaves in stable homotopy theory. There follows a treatment of more specialized topics, including localization of spectra, the deformation theory of formal groups, and Goerss-Hopkins obstruction theory for multiplicative structures on spectra. The book then proceeds to more advanced material, including discussions of the string orientation, the sheaf of spectra on the moduli stack of elliptic curves, the homotopy of topological modular forms, and an extensive account of the construction of the spectrum of topological modular forms. The book concludes with the three original, pioneering and enormously influential manuscripts on the subject, by Hopkins, Miller, and Mahowald.

Algebraic Geometry-Robin Hartshorne 2013-06-29 An introduction to abstract algebraic geometry, with the only prerequisites being results from commutative algebra, which are stated as needed, and some elementary topology. More than 400 exercises distributed throughout the book offer specific examples as well as more specialised topics not treated in the main text, while three appendices present brief accounts of some areas of current research. This book can thus be used as textbook for an introductory course in algebraic geometry following a basic graduate course in algebra. Robin Hartshorne studied algebraic geometry with Oscar Zariski and David Mumford at Harvard, and with J.-P. Serre and A. Grothendieck in Paris. He is the author of "Residues and Duality", "Foundations of Projective Geometry", "Ample Subvarieties of Algebraic Varieties", and numerous research titles.

Submarine Mass Movements and Their Consequences-Yasuhiro Yamada 2011-10-13 Submarine mass movements represent major offshore geohazards due to their destructive and tsunami-generation potential. This potential poses a threat to human life as well as to coastal, nearshore and offshore engineering structures. Recent examples of catastrophic submarine landslide events that affected human populations (including tsunamis) are numerous; e.g., Nice airport in 1979, Papua-New Guinea in 1998, Stromboli in 2002, Finneidfjord in 1996, and the 2006 and 2009 failures in the submarine cable network around Taiwan. The Great East Japan Earthquake in March 2011 also generated submarine landslides that may have amplified effects of the devastating tsunami. Given that 30% of the World's population live within 60 km of the coast, the hazard posed by submarine landslides is expected to grow as global sea level rises. This elevated awareness of the need for better understanding of submarine landslides is coupled with great advances in submarine mapping, sampling and monitoring technologies. Laboratory analogue and numerical modeling capabilities have also developed significantly of late. Multibeam sonar, 3D seismic reflection, and remote and autonomous underwater vehicle technologies provide hitherto unparalleled imagery of the geology beneath the oceans, permitting investigation of submarine landslide deposits in great detail. Increased and new access to drilling, coring, in situ measurements and monitoring devices allows for ground-thruth of geophysical data and provides access to samples for geotechnical laboratory experiments and information on in situ strength and effective stress conditions of underwater slopes susceptible to fail. Great advances in numerical simulation techniques of submarine landslide kinematics and tsunami propagation, particularly since the 2004 Sumatra tsunami, have also lead to increased understanding and predictability of submarine landslide consequences. This volume consists of the latest scientific research by international experts in geological, geophysical, engineering and environmental aspects of submarine mass failure, focused on understanding the full spectrum of challenges presented by submarine mass movements and their consequences.

Lighting for Digital Video and Television-John Jackman 2004-01-09 Digital video students and enthusiasts must learn lighting fundamentals and techniques to enhance the visual quality of their work. Moreover, since lighting specifications for digital video differ significantly from those for analog video or film, professional videographers and cinematographers must learn how to adapt their lighting skills for this new digital medium to ensure that the final product meets broadcast standards. This complete course in digital video and television lighting begins with how the human eye and the camera process light and color, progresses through the basics of equipment and setups, and culminates with practical lessons on how to solve common problems. It features clear illustrations and real-world examples that demonstrate proper equipment use, safety issues, and staging techniques. Detailed diagrams, figures, and photos illustrate techniques that enable novices to complete basic lighting setups. This new edition also features a 16-page color insert and new chapters on interview setups and lighting for low budgets.

Preserving New York-Anthony Wood 2013-10-28 Preserving New York is the largely unknown inspiring story of the origins of New York City's nationally acclaimed landmarks law. The decades of struggle behind the law, its intellectual origins, the men and women who fought for it, the forces that shaped it, and the buildings lost and saved on the way to its ultimate passage, span from 1913 to 1965. Intended for the interested public as well as students of New York City history, architecture, and preservation itself, over 100 illustrations help reveal a history richer and more complex than the accepted myth that the landmarks law sprang from the wreckage of the great Pennsylvania Station. Images include those by noted historic photographers as well as those from newspaper accounts of the time. Forgotten civic leaders such as Albert S. Bard and lost buildings including the Brokaw Mansions, are unveiled in an extensively researched narrative bringing this essential episode in New York's history to future generations tasked with protecting the city's landmarks. For the first time, the story of how New York won the right to protect its treasured buildings, neighborhoods and special places is brought together to enjoy, inform, and inspire all who love New York.

New Achievements in Continuum Mechanics and Thermodynamics-Bilen Emek Abali 2019-03-13 This book presents a liber amicorum dedicated to Wolfgang H. Müller, and highlights recent advances in Prof. Müller's major fields of

research: continuum mechanics, generalized mechanics, thermodynamics, mechanochemistry, and geomechanics. Over 50 of Prof. Müller's friends and colleagues contributed to this book, which commemorates his 60th birthday and was published in recognition of his outstanding contributions.

Foundations of Comparative Genomics-Arcady R. Mushegian 2010-07-20 This book provides an overview of computational analysis of genes and genomes, and of some most notable findings that come out of this work. Foundations of Comparative Genomics presents a historical perspective, beginning with early analysis of individual gene sequences, to present day comparison of gene repertoires encoded by completely sequenced genomes. The author discusses the underlying scientific principles of comparative genomics, argues that completion of many genome sequences started a new era in biology, and provides a personal view on several state-of-the-art issues, such as systems biology and whole-genome phylogenetic reconstructions. This book is an essential reference for researchers and students in computational biology, evolutionary biology, and genetics. Presents an historic overview of genome biology and its achievements Includes topics not covered in other books such as minimal and ancestral genomes Discusses the evolutionary resilience of protein-coding genes and frequent functional convergence at the molecular level Critically reviews horizontal gene transfer and other contentious issues Covers comparative virology as a somewhat overlooked foundation of modern genome science

An Introduction to Mathematical Cryptography-Jeffrey Hoffstein 2014-09-11 This self-contained introduction to modern cryptography emphasizes the mathematics behind the theory of public key cryptosystems and digital signature schemes. The book focuses on these key topics while developing the mathematical tools needed for the construction and security analysis of diverse cryptosystems. Only basic linear algebra is required of the reader; techniques from algebra, number theory, and probability are introduced and developed as required. This text provides an ideal introduction for mathematics and computer science students to the mathematical foundations of modern cryptography. The book includes an extensive bibliography and index; supplementary materials are available online. The book covers a variety of topics that are considered central to mathematical cryptography. Key topics include: classical cryptographic constructions, such as Diffie–Hellmann key exchange, discrete logarithm-based cryptosystems, the RSA cryptosystem, and digital signatures; fundamental mathematical tools for cryptography, including primality testing, factorization algorithms, probability theory, information theory, and collision algorithms; an in-depth treatment of important cryptographic innovations, such as elliptic curves, elliptic curve and pairing-based cryptography, lattices, lattice-based cryptography, and the NTRU cryptosystem. The second edition of An Introduction to Mathematical Cryptography includes a significant revision of the material on digital signatures, including an earlier introduction to RSA, Elgamal, and DSA signatures, and new material on lattice-based signatures and rejection sampling. Many sections have been rewritten or expanded for clarity, especially in the chapters on information theory, elliptic curves, and lattices, and the chapter of additional topics has been expanded to include sections on digital cash and homomorphic encryption. Numerous new exercises have been included.

PC- 1986-07

Abstract Algebra-Thomas W Judson 2019-08

Management and Ecology of Freshwater Plants-Joseph Caffrey 2012-12-06 There is a growing need for appropriate management of aquatic plants in rivers and canals, lakes and reservoirs, and drainage channels and urban waterways. This management must be based on a sound knowledge of the ecology of freshwater plants, their distribution and the different forms of control available including chemical, physical, biological and biomanipulation. This series of papers from over 20 different countries was generated from the highly successful European Weed Research Society symposia on aquatic plant management, this being the ninth. The contributions provide a valuable insight into the complexities involved in managing aquatic systems, discuss state-of-the-art control techniques such as biomanipulation using fish and waterfowl and the use of straw, and deal with patterns of regrowth and recovery post-management. Careful consideration is given to the use of chemicals, a practice which has come under scrutiny in recent years. Underpinning the development of such control techniques is a growing body of knowledge relating to the biology and ecology of water plants, including growth responses under different trophic conditions, the impact of pollution, and aspects of photosynthesis. The authorship of the papers represents the collective wisdom of leading scientists and experts from fisheries agencies, river authorities, nature conservation agencies, the agrochemical industry and both governmental and non-governmental organisations.

G-algebras and Modular Representation Theory-Jacques Thévenaz 1995 This book gives a comprehensive treatment of the theory of G-Algebras and shows how it can be used to solve a number of problems about blocks, modules and almost split sequences. The new approach to modular representation theory of finite groups was developed mainly by Lluis Puig since the 1970s and has several characteristic features: unification of several theories (e.g. block theory and module theory) under a single concept, introduction of new invariants (e.g. source algebras and multiplicity modules) which shed new light on the whole, new point of view on some classical theorems (e.g. Brauer's second main theorem) yielding more precise results, deep structural results such as Puig's theory on nilpotent blocks.

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ROMANCE ACTION & ADVENTURE MYSTERY & THRILLER BIOGRAPHIES & HISTORY CHILDREN'S YOUNG ADULT FANTASY HISTORICAL FICTION HORROR LITERARY FICTION NON-FICTION SCIENCE FICTION