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Hands-on Booting Interventional Ultrasound of the Breast Atlas of Fetal Imaging Computer Vision – ECCV 2020 Lactic Acid Bacteria: Genetics, Metabolism and Applications Polarized Light and Polarization Vision in Animal Sciences VLSI-SoC: Design Trends Atlas of Cardiac Catheterization for Congenital Heart Disease Digital Forensics Basics Cardiac Catheterization for Congenital Heart Disease Grasslands of the World The Aging Spine Sarcocystosis of Animals and Humans Seed Fate Herbivorous Insects Induced Plant Resistance to Herbivory Annual Plant Reviews, Insect-Plant Interactions Noncontact Atomic Force Microscopy Put Your Creativity Into Action Traces of My Father Plant Biochemistry Advances in Quantum Chemistry VLSI-SoC: Design Trends Cardiac Catheterization in Congenital Heart Disease Galerkin Finite Element Methods for Parabolic Problems Computer Vision – ECCV 2018 Advances in Visual Computing Database Systems for Advanced Applications Topics in Cryptology - CT-Rsa 2001 Advances in Cryptology – ASIACRYPT 2007 Wireless LANs High Performance Data Mining Progress in Cryptology -- AFRICACRYPT 2012 Proceedings of the 2017 ACM/SIGDA International Symposium on Field-Programmable Gate Arrays Noncontact Atomic Force Microscopy 2020 IEEE 3rd International Conference on Electronics Technology (ICET) Proceedings of the 20th ACM SIGGRAPH Symposium on Interactive 3D Graphics and Games 2019 IEEE Computer Society Annual Symposium on VLSI (ISVLSI) Topics in Numerical Analysis II The Theory of Splines and Their Applications

2019 IEEE Computer Society Annual Symposium on VLSI (ISVLSI) Jun 18 2020 This Symposium explores emerging trends and novel ideas and concepts in the area of VLSI The Symposium covers a range of topics from VLSI circuits, systems and design methods to system level design and system on chip issues, to bringing VLSI experience to new areas and technologies Future design methodologies as well as new CAD tools to support them will also be the key topics ISVLSI 2019 highlights a special theme of Neuromorphic Computing Over almost two decades the Symposium has been a unique forum promoting multidisciplinary research and new visionary approaches in the area of VLSI

Annual Plant Reviews, Insect-Plant Interactions Apr 09 2022 This latest volume in Wiley Blackwell's prestigious Annual Plant Reviews brings together articles that describe the biochemical, genetic, and ecological aspects of plant interactions with insect herbivores. The biochemistry section of this outstanding volume includes reviews highlighting significant findings in the area of plant signalling cascades, recognition of herbivore-associated molecular patterns, sequestration of plant defensive metabolites and perception of plant semiochemicals by insects. Chapters in the genetics section are focused on genetic mapping of herbivore resistance traits and the analysis of transcriptional responses in both plants and insects. The ecology section includes chapters that describe plant-insect interactions at a higher level, including multitrophic interactions, investigations of the cost-benefit paradigm and the altitudinal niche-breadth hypothesis, and a re-evaluation of co-evolution in the light of recent molecular research. Written by many of the world's leading researchers in these subjects, and edited by Claudia Voelckel and Georg Jander, this volume is designed for students and researchers with some background in plant molecular biology or ecology, who would like to learn more about recent advances or obtain a more in-depth understanding of this field. This volume will also be of great use and interest to a wide range of plant scientists and entomologists and is an essential purchase for universities and research establishments where biological sciences are studied and taught. To view details of volumes in Annual Plant Reviews, visit: <http://www.wiley.com/go/apr> Also available from Wiley: Plant Defense Dale Walters 9781405175890 Herbicides and Plant Physiology, 2nd Edn Andrew Cobb & John Reade 9781405129350

Topics in Cryptology - CT-Rsa 2001 Mar 28 2021

Noncontact Atomic Force Microscopy Mar 08 2022 Since 1995, the noncontact atomic force microscope (NC-AFM) has achieved remarkable progress. Based on nanomechanical methods, the NC-AFM detects the weak attractive force between the tip of a cantilever and a sample surface. This method has the following characteristics: it has true atomic resolution; it can measure atomic force interactions, i.e. it can be used in so-called atomic force spectroscopy (AFS); it can also be used to study insulators; and it can measure mechanical responses such as elastic deformation. This is the first book that deals with all of the emerging NC-AFM issues.

2020 IEEE 3rd International Conference on Electronics Technology (ICET) Aug 21 2020 The primary aim of ICET conference is to offer senior and young scientists from academic communities and electronic industries from around the world the opportunity to meet with colleagues to exchange research ideas and share new knowledge, development and experiences on topics related to their experimental and theoretical work in the very wide spread field of electronics and micro nanoelectronics technology and electronic packaging in a convenient and multicultural atmosphere The other key aim of ICET is to provide postgraduate students with the opportunity to present their research findings in front of experts from both academia and industry for scholarly feedback

VLSI-SoC: Design Trends Oct 03 2021 This book contains extended and revised versions of the best papers presented at the 28th IFIP WG 10.5/IEEE International Conference on Very Large Scale Integration, VLSI-SoC 2020, held in Salt Lake City, UT, USA, in October 2020. * The 16 full papers included in this volume were carefully reviewed and selected from the 38 papers (out of 74 submissions) presented at the conference. The papers discuss the latest academic and industrial results and developments as well as future trends in the field of System-on-Chip (SoC) design, considering the challenges of nano-scale, state-of-the-art and emerging manufacturing technologies. In particular they address cutting-edge research fields like low-power design of RF, analog and mixed-signal circuits, EDA tools for the synthesis and verification of heterogeneous SoCs, accelerators for cryptography and deep learning and on-chip interconnection system, reliability and testing, and integration of 3D-ICs. *The conference was held virtually.

Cardiac Catheterization in Congenital Heart Disease Sep 02 2021 The rapidly growing population of adults surviving with congenital heart lesions along with the success of interventional cardiology in the child and adolescent has spawned an incredible interest in adapting the technology for the adult congenital patients. Dr. Mullins, a pioneer in this area, has written an outstanding reference which covers all aspects of performing diagnostic and therapeutic cardiac catheterization procedures on patients of all ages. This illustrated book details the equipment and techniques for performing safe and successful procedures, with a strong emphasis on avoiding complications. It also includes the requirements of a catheterization laboratory for congenital heart patients, as well as guidance for setting up and operating such a laboratory. Cardiac Catheterization in Congenital Heart Disease serves as an essential manual for pediatric and adult interventional cardiologists worldwide.

Progress in Cryptology -- AFRICACRYPT 2012 Nov 23 2020 This book constitutes the refereed proceedings of the 5th International Conference on the Theory and Application of Cryptographic Techniques in Africa, AFRICACRYPT 2011, held in Ifrane, Morocco, in July 2012. The 24 papers presented together with abstracts of 2 invited talks were carefully reviewed and selected from 56 submissions. They are organized in topical sections on signature schemes, stream ciphers, applications of information theory, block ciphers, network security protocols, public-key cryptography, cryptanalysis of hash functions, hash functions: design and implementation, algorithms for public-key cryptography, and cryptographic protocols.

Wireless LANs Jan 26 2021 This book examines and assesses recently adopted emerging wireless LAN (Local Area Network) and PAN (Personal Area Network) technologies and standards.

Lactic Acid Bacteria: Genetics, Metabolism and Applications Apr 21 2023 Proceedings of the Sixth Symposium on Lactic Acid Bacteria: Genetics, Metabolism and Applications 19-23 September 1999, Veldhoven, The Netherlands

Proceedings of the 20th ACM SIGGRAPH Symposium on Interactive 3D Graphics and Games Jul 20 2020 I3D '16: Symposium on Interactive 3D Graphics and Games Feb 26, 2016-Feb 28, 2016 Redmond, USA. You can view more information about this proceeding and all of ACM's other published conference proceedings from the ACM Digital Library: <http://www.acm.org/dl>.

Advances in Cryptology – ASIACRYPT 2007 Feb 24 2021 This book constitutes the refereed proceedings of the 13th International Conference on the Theory and Application of Cryptology and Information Security, ASIACRYPT 2007, held in Kuching, Malaysia, in December 2007. The papers are organized in topical sections on number theory and elliptic curve, protocol, hash function design, group/broadcast cryptography, mac and implementation, multiparty computation, block ciphers, foundation, public key encryption, and cryptanalysis.

Topics in Numerical Analysis II May 18 2020 Topics in Numerical Analysis II contains in complete form, the papers given by the invited speakers to the Conference on Numerical Analysis held under the auspices of the National Committee for Mathematics of the Royal Irish Academy at University College, Dublin from 29th July to 2nd August, 1974. In addition, the titles of the contributed papers are listed together with the names and addresses of the authors who presented them at the conference. This book is divided into 20 chapters that present the papers in their entirety. They discuss such topics as applications of approximation theory to numerical analysis; interior regularity and local convergence of Galerkin finite element approximations for elliptic equations; and numerical estimates for the error of Gauss-Jacobi quadrature formulae. Some remarks on the unified treatment of elementary functions by microprogramming; application of finite difference methods to exploration seismology; and variable coefficient multistep methods for ordinary differential equations applied to parabolic partial differential equations are also presented. Other chapters cover realistic estimates for generic constants in multivariate pointwise approximation; matching of essential boundary conditions in the finite element method; and collocation, difference equations, and stitched function representations. This book will be of interest to practitioners in the fields of mathematics and computer science.

Plant Biochemistry Dec 05 2021 1 A Leaf Cell Consists of Several Metabolic Compartments 2 The Use of Energy from Sunlight by Photosynthesis is the Basis of Life on Earth 3 Photosynthesis is an Electron Transport Process 4 ATP is Generated by Photosynthesis 5 Mitochondria are the Power Station of the Cell 6 The Calvin Cycle Catalyzes Photosynthetic CO₂ Assimilation 7 In the Photorespiratory Pathway Phosphoglycolate Formed by the Oxygenase Activity of RubisCo is Recycled 8 Photosynthesis Implies the Consumption of Water 9 Polysaccharides are Storage and Transport Forms of Carbohydrates Produced by Photosynthesis 10 Nitrate Assimilation is Essential for the Synthesis of Organic Matter 11 Nitrogen Fixation Enables the Nitrogen in the Air to be Used for Plant Growth 12 Sulfate Assimilation Enables the Synthesis of Sulfur Containing Substances 13 Phloem Transport Distributes Photoassimilates to the Various Sites of Consumption and Storage 14 Products of Nitrate Assimilation are Deposited in Plants as Storage Proteins 15 Glycerolipids are Membrane Constituents and Function as Carbon Stores 16 Secondary Metabolites Fulfill Specific Ecological Functions in Plants 17 Large Diversity of Isoprenoids has Multiple Functions in Plant Metabolism 18 Phenylpropanoids Comprise a Multitude of Plant Secondary Metabolites and Cell Wall Components 19 Multiple Signals Regulate the Growth and Development of Plant Organs and Enable Their Adaptation to Environmental Conditions 20 A Plant Cell has Three Different Genomes 21 Protein Biosynthesis Occurs at Different Sites of a Cell 22 Gene Technology Makes it Possible to Alter Plants to Meet Requirements of Agriculture, Nutrition, and Industry.

High Performance Data Mining Dec 25 2020 High Performance Data Mining: Scaling Algorithms, Applications and Systems brings together in one place important contributions and up-to-date research results in this fast moving area. High Performance Data Mining: Scaling Algorithms, Applications and Systems serves as an excellent reference, providing insight into some of the most challenging research issues in the field.

Computer Vision – ECCV 2020 May 22 2023 The 30-volume set, comprising the LNCS books 12346 until 12375, constitutes the refereed proceedings of the 16th European Conference on Computer Vision, ECCV 2020, which was planned to be held in Glasgow, UK, during August 23-28, 2020. The conference was held virtually due to the COVID-19 pandemic. The 1360 revised papers presented in these proceedings were carefully reviewed and selected from a total of 5025 submissions. The papers deal with topics such as computer vision; machine learning; deep neural networks; reinforcement learning; object recognition; image classification; image processing; object detection; semantic segmentation; human pose estimation; 3d reconstruction; stereo vision; computational photography; neural networks; image coding; image reconstruction; object recognition; motion estimation.

Digital Forensics Basics Dec 17 2022 Use this hands-on, introductory guide to understand and implement digital forensics to investigate computer crime using Windows, the most widely used operating system. This book provides you with the necessary skills to identify an intruder's footprints and to gather the necessary digital evidence in a forensically sound manner to prosecute in a court of law. Directed toward users with no experience in the digital forensics field, this book provides guidelines and best practices when conducting investigations as well as teaching you how to use a variety of tools to investigate computer crime. You will be prepared to handle problems such as law violations, industrial espionage, and use of company resources for private use. Digital Forensics Basics is written as a series of tutorials with each task demonstrating how to use a specific computer forensics tool or technique. Practical information is provided and users can read a task and then implement it directly on their devices. Some theoretical information is presented to define terms used in each technique and for users with varying IT skills. What You'll Learn Assemble computer forensics lab requirements, including workstations, tools, and more Document the digital crime scene, including preparing a sample chain of custody form Differentiate between law enforcement agency and corporate investigations Gather intelligence using OSINT sources Acquire and analyze digital evidence Conduct in-depth forensic analysis of Windows operating systems covering Windows 10-specific feature forensics Utilize anti-forensic techniques, including steganography, data destruction techniques, encryption, and anonymity techniques Who This Book Is For Police and other law enforcement personnel, judges (with no technical background), corporate and nonprofit management, IT specialists and computer security professionals, incident response team members, IT military and intelligence services officers, system administrators, e-business security professionals, and banking and insurance professionals

Database Systems for Advanced Applications Apr 28 2021 This book constitutes the refereed proceedings of the 13th International Conference on Database Systems for Advanced Applications, DASFAA 2008, held in New Delhi, India, in March 2008. The 30 revised full papers and 27 revised short papers presented together with the abstracts of 3 invited talks as well as 8 demonstration papers and a panel discussion motivation were carefully reviewed and selected from 173 submissions. The papers are organized in topical sections on XML schemas, data mining, spatial data, indexes and cubes, data streams, P2P and transactions, XML processing, complex pattern processing, IR techniques, queries and transactions, data mining, XML databases, data warehouses and industrial applications, as well as mobile and distributed data.

Sarcocystosis of Animals and Humans Aug 13 2022 Sarcocystis is one of the most prevalent parasites of livestock and also infects many wild mammals, birds, and humans. Written by the authors who pioneered studies of Sarcocystosis of domestic animals, Sarcocystosis of Animals and Humans, Second Edition provides a current and comprehensive review of Sarcocystis and the infections it causes in animals and humans. The book reviews the history, structure, life cycle, pathogenesis, lesions, clinical signs, diagnosis, immunity, epidemiology, treatment, prevention, and control of Sarcocystosis. See What's New in the Second Edition: New section on molecular diagnosis and DNA characterization of Sarcocystis species New section on clinical sarcocystosis outbreaks in humans is added with a summary of all reports, symptoms, diagnosis, and treatment New section on acute fatal outbreaks of sarcocystosis in birds Complete description of the life cycles of all Sarcocystis species List of all species whose life cycles are known Comprehensive information on diagnosis, including molecular diagnosis Additional information on zoonoses In-depth coverage of treatment, control, and prevention Maintaining the format that made the first edition so popular, this new edition covers recent developments and excludes information that has become redundant. The authors include all literature and provide a comprehensive review of biology, clinical disease, economic losses, public health concerns, diagnosis, treatment, and prevention. They have tabulated information on all Sarcocystis species by host and listed species that should be considered species inquirende/invalid.

Advances in Quantum Chemistry Nov 04 2021 Advances in Quantum Chemistry presents surveys of current developments in this rapidly developing field that falls between the historically established areas of mathematics, physics, chemistry, and biology. With invited reviews written by leading international researchers, each presenting new results, it provides a single vehicle for following progress in this interdisciplinary area. This Volume and Volume 39 will be thematic volumes based on the proceedings of the Fifth European Workshop on Quantum Systems in Chemistry and Physics which was held April 13-18, 2000, in Uppsala, Sweden. We published the proceedings from a previous meeting in 1998. See Volumes 31 and 32.

Induced Plant Resistance to Herbivory May 10 2022 This timely book provides an overview of the anatomical, chemical, and developmental features contributing to plant defense, with an emphasis on plant responses that are induced by wounding or herbivore attack. The book first introduces general concepts of direct and indirect defenses, followed by a focused review of the different resistance traits. Finally, signal perception and transduction mechanism for the activation of plant defense responses are discussed.

Atlas of Fetal Imaging Jun 23 2023 This atlas presents the sonographic features of the normal fetal abdomen at different gestational ages, and describes the anomalies of different organ systems in the fetal abdomen. It covers the gastrointestinal tract, genitourinary tract, and abdominal wall defects with the help of numerous ultrasound images, and also addresses differential diagnosis using various sonographic images of the fetal abdomen, as well as effective diagnostic approaches for these conditions.

Advances in Visual Computing May 30 2021 The two volume set LNCS 9474 and LNCS 9475 constitutes the refereed proceedings of the 11th International Symposium on Visual Computing, ISVC 2015, held in Las Vegas, NV, USA in December 2015. The 115 revised full papers and 35 poster papers presented in this book were carefully reviewed and selected from 260 submissions. The papers are organized in topical sections: Part I (LNCS 9474) comprises computational bioimaging; computer graphics; motion and tracking; segmentation; recognition; visualization; mapping; modeling and surface reconstruction; advancing autonomy for aerial robotics; medical imaging; virtual reality; observing humans; spectral imaging and processing; intelligent transportation systems; visual perception and robotic systems. Part II (LNCS 9475): applications; 3D computer vision; computer graphics; segmentation; biometrics; pattern recognition; recognition; and virtual reality.

Put Your Creativity Into Action Feb 07 2022 Put your creative process into action If you want to be the best, focus on your most valuable asset: the power of your creative mind. The importance of inspiration and the creative spirit has never been greater. To live a life full of inspiration and fulfillment, we must first grasp where and how inspiration originates from. People often believe they can't be creative when they're under pressure, and many more believe they can't be creative at all because they've never been 'arty.' Each of us can be creative, to be inspired, to express our unique talents, and to contribute in ways that haven't been done before. Humans are reduced to little more than automatons when they lack originality. This book offers a comprehensive understanding of the totality of the creative process and guides how to put your creative process to action. Main points of this book: · Strategies to polish your creativity · Be creative on-demand, step-by-step approach · Add value to ideas and turn them into financial assets · Boost creativity with the power of lateral thinking · Break free from old ways of thinking with creative challenging This book is too simple and clear to find creativity hiding inside you. It can be applied to every individual including children and elders. CLICK THE "BUY NOW" BUTTON WITHOUT WASTING A MINUTE

Proceedings of the 2017 ACM/SIGDA International Symposium on Field-Programmable Gate Arrays Oct 23 2020 FPGA '17: The 2017 ACM/SIGDA International Symposium on Field-Programmable Gate Arrays Feb 22, 2017-Feb 24, 2017 Monterey, USA. You can view more information about this proceeding and all of ACM's other published conference proceedings from the ACM Digital Library: <http://www.acm.org/dl>.

Atlas of Cardiac Catheterization for Congenital Heart Disease Jan 18 2023 This atlas depicts and describes catheter-based interventions across the entire pediatric age range, from fetal life through to early adulthood, with the aim of providing an illustrated step-by-step guide that will help the reader to master these techniques and apply them in everyday practice. Clear instruction is offered on a wide range of procedures, including vascular access, fetal interventions, valve dilatation, angioplasty, stent implantation, defect closure, defect creation, valve implantation, hybrid approaches, and other miscellaneous procedures. The atlas complements the previously published handbook, Cardiac Catheterization for Congenital Heart Disease, by presenting a wealth of photographs, images, and drawings selected or designed to facilitate the planning, performance, and evaluation of diagnostic and interventional procedures in the field of congenital heart disease. It will assist in the safe, efficient performance of these procedures, in decision making, and in the recognition and treatment of complications.

Traces of My Father Jan 06 2022 Gauch's narrator separates his father's abhorrent politics from his character, providing an affecting portrait of the struggle to reconcile the past."--Jacket.

Computer Vision – ECCV 2018 Jun 30 2021 The sixteen-volume set comprising the LNCS volumes 11205-11220 constitutes the refereed proceedings of the 15th European Conference on Computer Vision, ECCV 2018, held in Munich, Germany, in September 2018. The 776 revised papers presented were carefully reviewed and selected from 2439 submissions. The papers are organized in topical sections on learning for vision; computational photography; human analysis; human sensing; stereo and reconstruction; optimization; matching and recognition; video attention; and poster sessions.

Hands-on Booting Aug 25 2023 Master the booting procedure of various operating systems with in-depth analysis of bootloaders and firmware. The primary focus is on the Linux booting procedure along with other popular operating systems such as Windows and Unix. Hands-on Booting begins by explaining what a bootloader is, starting with the Linux bootloader followed by bootloaders for Windows and Unix systems. Next, you'll address the BIOS and UEFI firmware by installing multiple operating systems on one machine and booting them through the Linux bootloader. Further, you'll see the kernel's role in the booting procedure of the operating system and the dependency between kernel, initramfs, and dracut. You'll also cover systemd, examining its structure and how it mounts the user root filesystem. In the final section, the book explains troubleshooting methodologies such as debugging shells followed by live images and rescue mode. On completing this book, you will understand the booting process of major operating systems such as Linux, Windows, and Unix. You will also know how to fix the Linux booting issues through various boot modes. What You Will Learn Examine the BIOS and UEFI firmware Understanding the Linux boot loader (GRUB) Work with initramfs, dracut, and systemd Fix can't-boot issues on Linux Who This Book Is For Linux users, administrators, and developers.

Polarized Light and Polarization Vision in Animal Sciences Mar 20 2023 This book covers advances made since the 2004 Springer volume "Polarized Light in Animal Vision" edited by Horvath and Varju, but also provides reviews and synopses of some areas. Part I examines polarization sensitivity across many animal taxa including vertebrates and invertebrates and details both terrestrial and aquatic life. Part II is devoted to the description of polarized light in nature and explores how the physics of light must be taken into account when understanding how polarized light is detected by the visual system. This includes underwater polarization due to scattering; polarization patterns reflected from freshwater bodies; polarization characteristics of forest canopies; normal and anomalous polarization patterns of the skies; skylight polarization transmitted through Snell's window and both linearly and circularly polarized signals produced by terrestrial and aquatic animals. This Part also examines polarized "light pollution" induced by anthropogenic factors such as reflection off asphalt surfaces, glass panes, car bodies, and other man-made structures that are now known to form ecological traps for polarotactic insects. Part III surveys some of the practical applications of polarization vision including polarization-based traps for biting insects, ground-based polarimetric cloud detectors and an historical examination of the navigational abilities of Viking seafarers using the sky polarization compass. The deterrent qualities of ungulate pelage to polarization-sensitive biting insects is also examined in this section.

Grasslands of the World Oct 15 2022 This book begins with a brief account of the extraordinary sequence of events that led to emergence of grasslands as major vegetation formations that now occupy some of the driest and hottest and the highest and coldest on earth as well as vast steppes and prairies in more temperate climes. It is the story of grasses successfully competing with forests and woodlands, aided and abetted by grazing herbivores and by humans and their use of fire as a tool. It is a story of adaptation to changing climates and the changing biophysical environments. A major focus of the book is the Palaearctic biogeographic realm that extends over some 45 million km² and thus more than 1/3 of the terrestrial ice-free surface on Earth. It comprises extensive grasslands of different types and origin, which can be subdivided into (1) natural grasslands with (1a) steppes (climatogenic in dry climates), (1b) arctic-alpine grasslands (climatogenic in cold climates) and (1c) zonal and extrazonal grasslands (pedogenic and topogenic) as well as (2) secondary grasslands created and sustained by human activities, such as livestock grazing, mowing or burning. Grasslands of the Palaearctic do not only form a major basis for the agriculture of the region and thus its food supply, but are also crucial for other ecosystem services and host a supra proportional part of the realm's plant and animal diversity. To reflect that suitability of grasslands for biodiversity strongly depends on their state, we apply the term High Nature Value grassland to those natural grasslands that are not degraded (in good state) and those secondary grasslands that are not intensified (semi-natural). The situation in a variety of countries where grasslands are evolving under the influence of global climate change is also considered. Case studies are presented on Southern Africa, Eastern Africa, India, China, South America, North America and Australia. The concluding chapter examines a set of themes arising from the chapters that make up the bulk of this book. The following provide a focus: recent history of grassland biomes – brief recap of current thinking and recent trends with special reference to dry grasslands in the Palearctic regions; the current status of grasslands and germplasm resources (biodiversity) – an overview; management systems that ensure sustainability; how to recover degraded grasslands; socio-economic issues and considerations in grassland management; the impacts of environmental problems in grasslands such as future climate change and intensification and the problems/prospects facing pastoralists and other grassland-based livestock producers.

Cardiac Catheterization for Congenital Heart Disease Nov 16 2022 This handbook is an ideal, up-to-date guide to the application of catheter-based interventions across the entire patient age range, from fetal life through to adulthood. Clear instruction is offered on techniques of vascular access, valve dilatation, angioplasty, stent implantation, defect closure, defect creation, pulmonary valve implantation and the hybrid approach, as well as miscellaneous other procedures. Topics are approached using a step-by-step format, ensuring that the reader will immediately be able to access information relevant to daily practice. Many explanatory figures and drawings are included in each chapter in order to clarify further how to plan, perform and evaluate diagnostic and interventional procedures in the field of congenital heart disease. Attention is drawn to important tips and tricks that will assist in achieving optimal outcomes and an appendix includes additional general equations and BSA and oxygen consumption charts.

Noncontact Atomic Force Microscopy Sep 21 2020 Since the original publication of Noncontact Atomic Force Microscopy in 2002, the noncontact atomic force microscope (NC-AFM) has achieved remarkable progress. This second treatment deals with the following outstanding recent results obtained with atomic resolution since then: force spectroscopy and mapping with atomic resolution; tuning fork; atomic manipulation; magnetic exchange force microscopy; atomic and molecular imaging in liquids; and other new technologies. These results and technologies are now helping evolve NC-AFM toward practical tools for characterization and manipulation of individual atoms/molecules and nanostructures with atomic/subatomic resolution. Therefore, the book exemplifies how NC-AFM has become a crucial tool for the expanding fields of nanoscience and nanotechnology.

Interventional Ultrasound of the Breast Jul 24 2023 This book is the premier guide to ultrasound-guided interventions of the breast. Written by Bruno D Fornage, a world-renowned leader in the fields of breast ultrasound and ultrasound-guided interventions, it covers in detail techniques of freehand ultrasound-guided breast biopsy, placement of post-biopsy markers, localization of nonpalpable lesions, and percutaneous ablation of breast masses. A large part of the book describes the highly effective combined use of fine-needle aspiration and core-needle biopsy during the staging of breast cancer; this combination has been used successfully by the author at MD Anderson Cancer Center for 3 decades. Throughout the book, the author shares numerous tips and tricks, many of which have not been published before. With over 1300 figures and 200 video clips depicting ultrasound-guided procedures, *Interventional Ultrasound of the Breast* is the authoritative resource for breast imagers, interventional radiologists, surgical breast oncologists, pathologists, and anyone who embarks on ultrasound-guided breast biopsies and other breast procedures. In addition, the techniques described in this book are applicable to many other areas of the body, including the thyroid and soft tissues.

Galerkin Finite Element Methods for Parabolic Problems Aug 01 2021 My purpose in this monograph is to present an essentially self-contained account of the mathematical theory of Galerkin finite element methods as applied to parabolic partial differential equations. The emphases and selection of topics reflects my own involvement in the field over the past 25 years, and my ambition has been to stress ideas and methods of analysis rather than to describe the most general and far-reaching results possible. Since the formulation and analysis of Galerkin finite element methods for parabolic problems are generally based on ideas and results from the corresponding theory for stationary elliptic problems, such material is often included in the presentation. The basis of this work is my earlier text entitled *Galerkin Finite Element Methods for Parabolic Problems*, Springer Lecture Notes in Mathematics, No. 1054, from 1984. This has been out of print for several years, and I have felt a need and been encouraged by colleagues and friends to publish an updated version. In doing so I have included most of the contents of the 14 chapters of the earlier work in an updated and revised form, and added four new chapters, on semigroup methods, on multistep schemes, on incomplete iterative solution of the linear algebraic systems at the time levels, and on semilinear equations. The old chapters on fully discrete methods have been reworked by first treating the time discretization of an abstract differential equation in a Hilbert space setting, and the chapter on the discontinuous Galerkin method has been completely rewritten.

Herbivorous Insects Jun 11 2022 *Herbivorous Insects: Host-Seeking Behavior and Mechanisms* addresses mechanisms of searching behavior leading ultimately to host location of herbivorous insects. It is divided into four sections, wherein the first two sections deal with neurophysiology and the diversity of behavioral induction cues. The third section covers the searching mechanisms as affected by insects' breadth of diet. The last part examines the evolutionary analysis of the behavioral and physiological adaptations in insect/host plant relations. This book starts with an introduction to the chemical sensory system as it relates to host selection in general. This is followed by considerable discussions on host-seeking behavior and allied patterns in behavior. This text also includes the study of oviposition behavior in butterflies belonging to Papilionidae. The third section presents host selection and colonization by three insects within the saprophage-predator continuum, namely, *Hylurgopinus rufipes*, *Scolytus multistriatus*, and *Pissodes strobi*. The behaviors by which certain oligophagous insects locate and select food plants are also considered. The concluding part addresses the unifying theme and the diversity of responses of phytophagous insects to plants. The book provides direction toward developing a unifying theme and improving the ability to unravel the complexities of insect/plant interactions. Behaviorists, ecologists, entomologists, evolutionary biologists, and physiologists will find this book invaluable.

VLSI-SoC: Design Trends Feb 19 2023 This book contains extended and revised versions of the best papers presented at the 28th IFIP WG 10.5/IEEE International Conference on Very Large Scale Integration, VLSI-SoC 2020, held in Salt Lake City, UT, USA, in October 2020.* The 16 full papers included in this volume were carefully reviewed and selected from the 38 papers (out of 74 submissions) presented at the conference. The papers discuss the latest academic and industrial results and developments as well as future trends in the field of System-on-Chip (SoC) design, considering the challenges of nano-scale, state-of-the-art and emerging manufacturing technologies. In particular they address cutting-edge research fields like low-power design of RF,

analog and mixed-signal circuits, EDA tools for the synthesis and verification of heterogeneous SoCs, accelerators for cryptography and deep learning and on-chip Interconnection system, reliability and testing, and integration of 3D-ICs. *The conference was held virtually.

Seed Fate Jul 12 2022 This book presents current knowledge of seed fate in both natural and human-disturbed landscapes, from various regions of the world. Habitats considered range from mountain and arid deserts in the temperate zone, to savanna and lowland rainforests in tropical regions of the world. Particular attention is paid to plant diversity conservation when seed removal is affected by factors such as hunting, habitat fragmentation or intensive logging. Contributors include leading scientists involved in research on seed ecology and on animal-plant relationships from the perspective of both primary and secondary seed dispersal, and predation.

The Theory of Splines and Their Applications Apr 16 2020 The Theory of Splines and Their Applications discusses spline theory, the theory of cubic splines, polynomial splines of higher degree, generalized splines, doubly cubic splines, and two-dimensional generalized splines. The book explains the equations of the spline, procedures for applications of the spline, convergence properties, equal-interval splines, and special formulas for numerical differentiation or integration. The text explores the intrinsic properties of cubic splines including the Hilbert space interpretation, transformations defined by a mesh, and some connections with space technology concerning the payload of a rocket. The book also discusses the theory of polynomial splines of odd degree which can be approached through algebraically (which depends primarily on the examination in detail of the linear system of equations defining the spline). The theory can also be approached intrinsically (which exploits the consequences of basic integral relations existing between functions and approximating spline functions). The text also considers the second integral relation, raising the order of convergence, and the limits on the order of convergence. The book will prove useful for mathematicians, physicist, engineers, or academicians in the field of technology and applied mathematics.

The Aging Spine Sep 14 2022 The "Bone and Joint Decade" draws our attention with increased intensity to the problem of the changes related to aging of our musculoskeletal system and the associated socioeconomic implications. In view of the increasing age of the worldwide population the impact seems to be tremendous. The editors of The Aging Spine pick up this interesting topic and engage opinion leaders to contribute their knowledge in this supplement. The various contributions cover most of the important problems, which are included in the vast specter of aging spine: osteoporosis, spinal stenosis, and tumors of the spine. The aging spine will be an everpresent issue in the life of a physician taking care of the different pathologies of the spine. This text will help to better understand the nature of the different changes in the spine of the elderly. It contributes to enabling us to diagnose and to treat this complex problem in an appropriate way.

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