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Migration of Freshwater

Fishes - Martyn Lucas

2008-04-15

Recent studies have increasingly demonstrated the widespread existence of spatio-temporal variations in the abundance and distribution of species of freshwater fishes, previously assumed not to move between habitats. These movements are often on a seasonal or ontogenetic basis, for spawning, feeding and

refuge, and in many cases are fundamental for the successful completion of lifecycles. This important book provides a single source for a range of previously widely dispersed information on these movements of fish in fresh waters, covering potamodromous fishes as well as the more familiar diadromous species, worldwide. Contents include full descriptions of types of

migration and spatial behaviour, the stimulus and capacity for fish to migrate, the effects of climate on patterns of migratory behaviour, a taxonomic analysis (mostly by family) of freshwater fish migration, methods for studying migration, and details of the impacts of man's activities on freshwater fish migration. Migration of Freshwater Fishes provides an excellent and comprehensive reference to which the river manager, biologist or student can now refer to obtain information, advice and current opinion on the migratory behaviour of most taxonomic groups of fishes occurring in fresh water. University libraries and aquatic research stations should also have copies of this essential reference book on their shelves. Well-known international authors. Of great commercial importance to fisheries and professional angling bodies. Draws together much new information in one place. Detailed review of world wide migratory behaviour for

most groups of freshwater fishes. Pure and applied relevance, for academics, fisheries scientists, river managers and conservationists. This comprehensive book includes 67 tables and figures and over 1,400 references.

The Social Skills Guidebook - Chris MacLeod 2016

A comprehensive, down to earth guide on how teens and adults can improve their core interpersonal skills. Covers managing shyness and anxiety, making conversation, and forming friendships. The author runs one of the web's largest sites on social skills, and is a trained counselor.

Experimenting on a Small Planet - William W. Hay 2012-12-13

This book is a thorough introduction to climate science and global change. The author is a geologist who has spent much of his life investigating the climate of Earth from a time when it was warm and dinosaurs roamed the land, to today's changing climate. Bill Hay takes you on a journey to understand how the climate

system works. He explores how humans are unintentionally conducting a grand uncontrolled experiment which is leading to unanticipated changes. We follow the twisting path of seemingly unrelated discoveries in physics, chemistry, biology, geology, and even mathematics to learn how they led to our present knowledge of how our planet works. He explains why the weather is becoming increasingly chaotic as our planet warms at a rate far faster than at any time in its geologic past. He speculates on possible future outcomes, and suggests that nature itself may make some unexpected course corrections. Although the book is written for the layman with little knowledge of science or mathematics, it includes information from many diverse fields to provide even those actively working in the field of climatology with a broader view of this developing drama. *Experimenting on a Small Planet* is a must read for anyone having more than a casual interest in global

warming and climate change - one of the most important and challenging issues of our time.

Driving-safety Systems -

Robert Bosch GmbH. 1999

Formerly 'Automotive Brake

Systems'. 2nd Edition. Safety is

very important in vehicle

design and operation. Driving-

Safety Systems is the new

edition of what was formerly

titled 'Automotive Brake

Systems'. The title has been

changed to reflect the addition

of information on recent

technological advancements in

safety systems beyond braking

systems such as traction

control systems (TCS) and

electronic stability control

(ESP). Ideal for engineers,

technicians and enthusiasts,

this book offers a wide range of

detailed and easy-to-

understand descriptions of the

most important control systems

and components. A new section

on electronic stability has been

added, and sections on driving

physics, braking systems basics

and braking systems for

passenger cars and commercial

vehicles have been updated.

Contents include: Driving

Safety in the Vehicle Basics of Driving Physics Braking-System Basics Braking Systems for Passenger Cars Commercial Vehicles - Basic Concepts, Systems and Diagrams Compressed Air Equipment Symbols Equipment for Commercial Vehicles Brake Testing Electronic Stability Program ESP.

Quaternary Dating Methods -

Mike Walker 2013-04-30

This introductory textbook introduces the basics of dating, the range of techniques available and the strengths and limitations of each of the principal methods. Coverage includes: the concept of time in Quaternary Science and related fields the history of dating from lithostratigraphy and biostratigraphy the development and application of radiometric methods different methods in dating: radiometric dating, incremental dating, relative dating and age equivalence Presented in a clear and straightforward manner with the minimum of technical detail, this text is a great introduction for both

students and practitioners in the Earth, Environmental and Archaeological Sciences. Praise from the reviews: "This book is a must for any Quaternary scientist." SOUTH AFRICAN GEOGRAPHICAL JOURNAL, September 2006 "...very well organized, clearly and straightforwardly written and provides a good overview on the wide field of Quaternary dating methods..." JOURNAL OF QUATERNARY SCIENCE, January 2007

Scalextric - Roger Gillham
2009-02-15

First published in 1981, this book has long been recognized as the 'bible of Scalextric', providing a complete catalogue of the cars and equipment produced. Now, for this seventh edition, the book has undergone a transformation, with a complete redesign and masses of new information about cars, sets and accessories produced around the world. As well as extra detail about earlier periods, there is full coverage of all the new Scalextric products launched in the four years that

have elapsed since the previous edition. Now containing nearly 1,000 photographs, this book has become an extraordinarily detailed summary of everything in the world of Scalextric, written by an author who has been captivated by the subject for nearly 50 years.

Molecular Exercise Physiology

- Henning Wackerhage

2014-02-24

Molecular Exercise Physiology: An Introduction is the first student-friendly textbook to be published on this key topic in contemporary sport and exercise science. It introduces sport and exercise genetics and the molecular mechanisms by which exercise causes adaptation. The text is linked to real life sport and exercise science situations such as 'what makes people good at distance running?', 'what DNA sequence variations code for a high muscle mass?' or 'by what mechanisms does exercise improve type2 diabetes?' The book includes a full range of useful features, such as summaries, definitions of key terms, guides to further

reading, review questions, personal comments by molecular exercise pioneers (Booth, Bouchard) and leading research in the field, as well as descriptions of research methods. A companion website offers interactive and downloadable resources for both student and lecturers. Structured around central themes in sport and exercise science, such as nutrition, endurance training, resistance training, exercise & chronic disease and ageing, this book is the perfect foundation around which to build a complete upper-level undergraduate or postgraduate course on molecular exercise physiology.

Culture of Human Stem

Cells - R. Ian Freshney

2007-07-16

This book collects the most effective and cutting-edge methods and protocols for deriving and culturing human embryonic and adult stem cells—in one handy resource. This groundbreaking book follows the tradition of previous books in the Culture of Specialized Cells

Series—each methods and protocols chapter is laid out exactly like the next, with stepwise protocols, preceded by specific requirements for that protocol, and a concise discussion of methods illustrated by data. The editors describe a limited number of representative techniques across a wide spectrum of stem cells from embryonic, newborn, and adult tissue, yielding an all-encompassing and versatile guide to the field of stem cell biology and culture. The book includes a comprehensive list of suppliers for all equipment used in the protocols presented, with websites available in an appendix. Additionally, there is a chapter on quality control, and other chapters covering legal and ethical issues, cryopreservation, and feeder layer culture. This text is a one-stop resource for all researchers, clinical scientists, teachers, and students involved in this crucial area of study.

Shell Scripting - Steve Parker
2011-08-17

A compendium of shell

scripting recipes that can immediately be used, adjusted, and applied. The shell is the primary way of communicating with the Unix and Linux systems, providing a direct way to program by automating simple-to-intermediate tasks. With this book, Linux expert Steve Parker shares a collection of shell scripting recipes that can be used as is or easily modified for a variety of environments or situations. The book covers shell programming, with a focus on Linux and the Bash shell; it provides credible, real-world relevance, as well as providing the flexible tools to get started immediately. Shares a collection of helpful shell scripting recipes that can immediately be used for various of real-world challenges. Features recipes for system tools, shell features, and systems administration. Provides a host of plug and play recipes for to immediately apply and easily modify so the wheel doesn't have to be reinvented with each challenge faced. Come out of your shell.

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and dive into this collection of tried and tested shell scripting recipes that you can start using right away!

Teaching and Learning for Social Justice and Equity in Higher Education - C. Casey Ozaki 2021-04-21

This book explores theory and best practices to improve teaching and learning to promote equity in the classroom in specific disciplinary areas including STEM, healthcare, and the humanities. Each chapter includes actionable pedagogical or curricular recommendations such as course assignments and lesson plans. This is the second of four edited volumes focusing on applications of the Scholarship of Teaching and Learning (SoTL) for more equitable learning opportunities.

Biomedical Insights that Inform the Diagnosis of ME/CFS -

Brett A. Lidbury 2020-03-16

Myalgic encephalomyelitis/chronic fatigue syndrome (ME/CFS) is a severe chronic health condition that is often

misunderstood or ignored by health establishments. The lack of definitive diagnostic markers to separate ME/CFS patients from the healthy population as well as from other chronic disorders is problematic for both health professionals and researchers. A consortium of Australian researchers gathered to systematically understand ME/CFS, ranging from a deep analysis of clinical and pathology data to metabolomic profiles and the investigation of mitochondrial function. From this broad collaboration, a number of compelling insights have arisen that may form the basis of specific serum, blood, and/or urinary biomarkers of ME/CFS. This Special Edition reports on a conference centred on these biomedical discoveries, with other contributions, with a translation focus for predictive markers for ME/CFS diagnosis. By supporting health professionals with developments in diagnostics for this condition, the patients and their families will hopefully benefit from an improved

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recognition of the biomedical underpinnings of the condition and will be better able to access the care that is urgently required. This Special Edition contains a mix of speaker submissions and other accepted manuscripts that contributed to our objective of advancing biomedical insights to enable the accurate diagnosis of ME/CFS.

Advances in Materials

Characterization - David R. Rossington 2012-12-06

The characterization of materials and phenomena has historically been the principal limitation to the development in each area of science. Once what we are observing is well defined, a theoretical analysis rapidly follows. Modern theories of chemical bonding did not evolve until the methods of analytical chemistry had progressed to a point where the bulk stoichiometry of chemical compounds was firmly established. The great progress made during this century in understanding chemistry has followed directly from the

development of an analytical chemistry based on the Dalton assumption of multiple proportions. It has only become apparent in recent years that the extension of our understanding of materials hinges on their non-stoichiometric nature. The world of non-Daltonian chemistry is very poorly understood at present because of our lack of ability to precisely characterize it. The emergence of materials science has only just occurred with our recognition of effects, which have been thought previously to be minor variations from ideality, as the principal phenomena controlling properties. The next step in the historical evolution of materials science must be the development of tools to characterize the often subtle phenomena which determine properties of materials. The various discussions of instrumental techniques presented in this book are excellent summaries for the state-of-the-art of materials characterization at this rather

critical stage of materials science. The application of the tools described here, and those yet to be developed, holds the key to the development of this infant into a mature science.

What Every Woman Wants in a Man/What Every Man Wants in a Woman - John Hagee

2015-02-03

Opposites Attract...and can thrive in a marriage built on God. The book starts with the results of a survey detailing the ten most important qualities that each man or woman wants in a spouse, then teaches us how we can be the person who breeds that quality in our husband or wife. Throughout the book the authors use their own personalities and experience with marriage to demonstrate how to do marriage right.

Microbes and Microbial Technology - Iqbal Ahmad

2011-02-01

This book focuses on successful application of microbial biotechnology in areas such as medicine, agriculture, environment and human health.

Better Aid Civil Society and Aid Effectiveness Findings,

Recommendations and Good Practice - OECD 2010-02-03

This book is a resource for implementing the recommendations on civil society and aid effectiveness emerging from the Accra High Level Forum and its preparatory process.

McLaren MP4/4 Owners' Workshop Manual - Steve Rendle 2018-06-19

The McLaren MP4/4 is the iconic Honda V6 turbo-powered F1 car built by McLaren for the 1988 grand prix season, driven by Ayrton Senna and Alain Prost. Remarkably, the car won all but one race during 1988, and took McLaren's then-new recruit Senna to his first Drivers' World Championship after a season-long battle with team-mate Prost. McLaren achieved an astonishing 10 one-two finishes with the car, and suffered only two car-related retirements during the season. The MP4/4 is still statistically the most dominant F1 car ever built. Ironically, the fact that McLaren was already

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an enormously successful and well-resourced team prior to 1988 has led to the assumption that producing another winning car in the form of the MP4/4 was simply business as usual. The truth is rather different, with many challenges along the way, mistakes to resolve and, as ever in motor racing, an element of luck, all playing a part in the MP4/4's extraordinary success. A wealth of previously unpublished archive material, including original technical drawings and team documentation, provides fascinating new insight into the design and build of the MP4/4. Produced with the full cooperation of McLaren, and unique access to a race-winning MP4/4 chassis, this manual tells for the first time the accurate story of the design, engineering and operation of one of F1's most iconic cars, featuring extensive and often candid input from the designers, engineers and drivers involved. The McLaren story: Brief history of McLaren prior to the MP4/4 and

subsequent history to the present day. Design and build of the MP4/4: The full story of how a completely new car, along with a one-off Honda engine, were designed and built for the 1988 season. The MP4/4 in action: A race-by-race account of the MP4/4's performance in the 1988 World Championship. The anatomy of the MP4/4: Chassis, aerodynamics, suspension, steering, brakes, Honda engine, transmission, wheels and tyres, cockpit and electrics. The drivers: Insight from Alain Prost and test-driver Emanuele Pirro, plus a profile of Ayrton Senna with thoughts from his former teammates. Appendices: Specifications, race results and statistics and full chassis histories.

Mass Spectrometry - Edmond de Hoffmann 2001-10-10
Offers a complete overview of the principles, theories and key applications of modern mass spectrometry in this introductory textbook. Following on from the highly successful first edition, this edition is extensively updated

including new techniques and applications. All instrumental aspects of mass spectrometry are clearly and concisely described; sources, analysers and detectors. * Revised and updated * Numerous examples and illustrations are combined with a series of exercises to help encourage student understanding * Includes biological applications, which have been significantly expanded and updated * Also includes coverage of ESI and MALDI

Handbook of GC/MS - Hans-Joachim Hübschmann
2008-12-03

This is the first comprehensive reference work for GC/MS now in its second edition. It offers broad coverage, from sample preparation to the evaluation of MS-Data, including library searches. Fundamentals, techniques, and applications are described. A large part of the book is devoted to numerous examples for GC/MS-applications in environmental, food, pharmaceutical and clinical analysis. These proven examples come from the daily

practice of various laboratories. The book also features a glossary of terms and a substance index that helps the reader to find information for his particular analytical problem. The author presents in a consistent and clear style his experience from numerous user workshops which he has organized. This is a thoroughly revised and updated English edition based on an edition which was highly successful in Germany.

Sustainable Intensification -

Jules N. Pretty 2012-06-25

Continued population growth, rapidly changing consumption patterns and the impacts of climate change and environmental degradation are driving limited resources of food, energy, water and materials towards critical thresholds worldwide. These pressures are likely to be substantial across Africa, where countries will have to find innovative ways to boost crop and livestock production to avoid becoming more reliant on imports and food aid. Sustainable agricultural

intensification - producing more output from the same area of land while reducing the negative environmental impacts - represents a solution for millions of African farmers. This volume presents the lessons learned from 40 sustainable agricultural intensification programmes in 20 countries across Africa, commissioned as part of the UK Government's Foresight project. Through detailed case studies, the authors of each chapter examine how to develop productive and sustainable agricultural systems and how to scale up these systems to reach many more millions of people in the future. Themes covered include crop improvements, agroforestry and soil conservation, conservation agriculture, integrated pest management, horticulture, livestock and fodder crops, aquaculture, and novel policies and partnerships.

Introduction to Mass Spectrometry - J. Throck Watson 2013-07-09
Completely revised and

updated, this text provides an easy-to-read guide to the concept of mass spectrometry and demonstrates its potential and limitations. Written by internationally recognised experts and utilising "real life" examples of analyses and applications, the book presents real cases of qualitative and quantitative applications of mass spectrometry. Unlike other mass spectrometry texts, this comprehensive reference provides systematic descriptions of the various types of mass analysers and ionisation, along with corresponding strategies for interpretation of data. The book concludes with a comprehensive 3000 references. This multi-disciplined text covers the fundamentals as well as recent advance in this topic, providing need-to-know information for researchers in many disciplines including pharmaceutical, environmental and biomedical analysis who are utilizing mass spectrometry

Mass Spectrometry - Jürgen H Gross 2006-04-05

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Mass Spectrometry is an ideal textbook for students and professionals as well as newcomers to the field. Starting from the very first principles of gas-phase ion chemistry and isotopic properties, the textbook takes the reader through the design of mass analyzers and ionization methods all the way to mass spectral interpretation and coupling techniques. Step-by-step, the reader learns how mass spectrometry works and what it can do. The book comprises a balanced mixture of practice-oriented information and theoretical background. It features a clear layout and a wealth of high-quality figures. Exercises and solutions are located on the Springer Global Web.

The Interactions between Sediments and Water - Brian Kronvang 2013-04-17

This book focuses on sediments as a pollutant in natural freshwater and marine habitats, and as a vector for the transfer of chemicals such as nutrients and contaminants. Sediment-water research is

carried out all over the world within a variety of disciplines. The selected papers cover three main topics relating to assessment and/or restoration of disturbed watersheds, sediment-water linkages in terrestrial and aquatic environments and evaluation of sediment and ecological changes in marine and freshwater habitats. Innovative research in both developed and less developed countries is included. Both fundamental research, insight into applied research and system management are covered. The volume will also appeal to readers involved in sediment geochemistry and dynamics, aquatic habitats, water quality, aquatic ecology, river morphology, restoration techniques and catchment management.

Regression and Other Stories - Andrew Gelman 2020-07-23

A practical approach to using regression and computation to solve real-world problems of estimation, prediction, and causal inference.

Transforming Learning with

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Meaningful Technologies -

Maren Scheffel 2019-09-09

This book constitutes the proceedings of the 14th European Conference on Technology Enhanced Learning, EC-TEL 2019, held in Delft, The Netherlands, in September 2019. The 41 research papers and 50 demo and poster papers presented in this volume were carefully reviewed and selected from 149 submissions. The contributions reflect the debate around the role of and challenges for cutting-edge 21st century meaningful technologies and advances such as artificial intelligence and robots, augmented reality and ubiquitous computing technologies and at the same time connecting them to different pedagogical approaches, types of learning settings, and application domains that can benefit from such technologies.

Water Resources Quality -

Hillel Rubin 2012-10-12

This monograph results from the 4th International Austrian-Israeli Technion Symposium

cum Industrial Forum under the banner of the Austrian Technion Society initiative Technology for Peace - Science for Mankind, which was held in Vienna, 23 - 25 April 2001, devoted to Preservation of the Quality of our Water Resources. The Symposium was a cooperative effort with the Austrian Federal Ministry of Education and Science and Culture, and the Austrian Federal Ministry of Economy and Labor. The program was structured and managed by a joint Program Committee incorporating the editors of this monograph, who are faculty members from the Stephan and Nancy Grand Water Research Institute at the Technion - Israel Institute of Technology, and the University of Agricultural Sciences (Bodenkultur) of Vienna. The Symposium attracted participation from universities, research institutes, industries, and national authorities from Austria, Germany, Greece, Hungary, Israel, Jordan, Palestinian Autonomy, Poland, Russia, Spain, Turkey, USA,

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and Uzbekistan. The Symposium topics were of major international interest, and talks were at a high professional level. Therefore, I have gladly accepted the initiative of the Symposium Program Committee to extend and expand manuscripts of special merit to chapters of this monograph, whose title is identical to that of the Symposium. Out of the 39 papers presented at the Symposium, 24 papers were selected for inclusion in this monograph, according to their scientific merit and quality of contribution to the overall subject. Those selected were expanded and subjected to peer review for inclusion in this Volume.

An Introduction to Archaeological Chemistry - T. Douglas Price 2010-10-17
Archaeological chemistry is a subject of great importance to the study and methodology of archaeology. This comprehensive text covers the subject with a full range of case studies, materials, and research methods. With twenty

years of experience teaching the subject, the authors offer straightforward coverage of archaeological chemistry, a subject that can be intimidating for many archaeologists who do not already have a background in the hard sciences. With clear explanations and informative illustrations, the authors have created a highly approachable text, which will help readers overcome that intimidation. Topics covered included: Materials (rock, pottery, bone, charcoal, soils, metals, and others), Instruments (microscopes, NAA, spectrometers, mass spectrometers, GC/MS, XRF & XRD, Case Studies (Provenience, Sediments, Diet Reconstruction, Past Human Movement, Organic Residues). The detailed coverage and clear language will make this useful as an introduction to the study of archaeological chemistry, as well as a useful resource for years after that introduction.

Breeding Rice for Drought-prone Environments - K. S.

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Fischer 2003

Information available for other cereals and the limited or circumstantial evidence available for rice indicate that we can now breed varieties that have improved yield under drought and produce high yields in the good seasons. This manual aims to help plant breeders develop such varieties.

Book of Abstracts of the 70th Annual Meeting of the European Federation of Animal Science - Scientific Committee 2019-08-26

This Book of Abstracts is the main publication of the 70th Annual Meeting of the European Federation of Animal Science (EAAP). It contains abstracts of the invited papers and contributed presentations of the sessions of EAAP's eleven Commissions: Animal Genetics, Animal Nutrition, Animal Management and Health, Animal Physiology, Cattle Production, Sheep and Goat Production, Pig Production, Horse Production and Livestock Farming Systems, Insects and Precision

Livestock Farming.

Handbook of Food Analysis - Two Volume Set - Leo M.L. Nollet 2015-06-10

Updated to reflect changes in the industry during the last ten years, The Handbook of Food Analysis, Third Edition covers the new analysis systems, optimization of existing techniques, and automation and miniaturization methods. Under the editorial guidance of food science pioneer Leo M.L. Nollet and new editor Fidel Toldra, the chapters take an in **Driving Ambition** - Doug Nye 1999

Subtitled: The Official Inside Story of the McLaren F1. The story of a pursuit of excellence, with all the twists and turns that occurred along the way. The story of an idea, a dream of conceptual brilliance, and of how it was brought to fruition by a group of highly motivated and intensely capable individuals working as a focused and disciplined team. A human story of anecdotes and humor, Driving Ambition captures the spirit and the story of the McLaren F1. A

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book for anyone who has ever understood the vision, the passion and the power of beautiful, fast cars. Hdbd., 12"x 12", 272 pgs., 50 b&w ill., 628 color.

The Dictionary of Physical Geography - David S. G.

Thomas 2013-05-28

The third edition of this comprehensive encyclopedic dictionary covers the whole field of physical geography and provides an essential reference for all students and lecturers in this field.

Manual of Fish

Sclerochronology - Hervé

Troadec 2002

Tropical Soil Biology and Fertility - Jonathan Michael

Anderson 1989

In this handbook methods are given to determine soil characteristics, organic matter compounds, phosphorus in soil, nitrogen fixation, soil solution sampling, plant nutrient uptake and the nitrogen availability

Soil Sampling and Methods of Analysis - M.R. Carter

2007-08-03

Thoroughly updated and

revised, this second edition of the bestselling *Soil Sampling and Methods of Analysis* presents several new chapters in the areas of biological and physical analysis and soil sampling. Reflecting the burgeoning interest in soil ecology, new contributions describe the growing number and assortment of new microbiological

Lost Sex - Isa Schön

2009-09-22

Sex is the queen of problems in evolutionary biology.

Generations of researchers have investigated one of the last remaining evolutionary paradoxes: why sex exists at all. Given that sexual reproduction is costly from an evolutionary point of view, one could wonder why not all animals and plants reproduce asexually. Dozens of contemporary hypotheses attempt to explain the prevalence of sex and its advantages and predict the early extinction of fully asexual lineages. The major theme of this book is: what is the fate of animal and plant groups in

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which sex is lost? Initial chapters discuss theory behind asexual life: what major disadvantages do asexual groups have to face, what are the genetic and ecological consequences and what does this theory predict for more applied aspects of asexual life, for example in agricultural pests, diseases as well as in cultural crops such as grapes. Cases studies in many animals (focusing on both invertebrates and vertebrates) and plants reveal parallel, but also singularly novel adaptations to the absence of meiosis and syngamy. And last but not least, are asexuals really doomed to early extinction or do genuine ancient asexuals exist? This book assembles contributions from the most important research groups dealing with asexual evolution in eukaryotes. It is a milestone in research on parthenogenesis and will be useful to undergraduate as well as graduate students and to senior researchers in all fields of evolutionary biology, as the paradox of sex remains its

queen of problems.

Environmentally Sustainable Viticulture - Chris Gerling

2015-03-20

This title includes a number of Open Access chapters. As climate change becomes a growing reality, more industries must grapple with how to implement sustainable business practices at every step of the production process. This is especially true for viticulture, where every step of production can take years to come to fruition, and any decision made

Fundamentals of Tree Ring Research - James H. Speer

2021-12-14

Tree-ring dating (dendrochronology) is a method of scientific dating based on the analysis of tree-ring growth patterns. As author James Speer notes, trees are remarkable bioindicators. Although there are other scientific means of dating climatic and environmental events, dendrochronology provides the most reliable of all paleorecords.

Dendrochronology can be

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applied to very old trees to provide long-term records of past temperature, rainfall, fire, insect outbreaks, landslides, hurricanes, and ice storms--to name only a few events. This comprehensive text addresses all of the subjects that a reader who is new to the field will need to know and will be a welcome reference for practitioners at all levels. It includes a history of the discipline, biological and ecological background, principles of the field, basic scientific information on the structure and growth of trees, the complete range of dendrochronology methods, and a full description of each of the relevant subdisciplines. Individual chapters address the composition of wood, methods of field and laboratory study, dendroarchaeology, dendroclimatology, dendroecology, dendrogeomorphology, and dendrochemistry. The book also provides thorough introductions to common computer programs and methods of statistical analysis.

In the final chapter, the author describes "frontiers in dendrochronology," with an eye toward future directions in the field. He concludes with several useful appendixes, including a listing of tree and shrub species that have been used successfully by dendrochronologists. Throughout, photographs and illustrations visually represent the state of knowledge in the field.

Sintering of Ceramics -
Arunachalam Lakshmanan
2012-03-02

The chapters covered in this book include emerging new techniques on sintering. Major experts in this field contributed to this book and presented their research. Topics covered in this publication include Spark plasma sintering, Magnetic Pulsed compaction, Low Temperature Co-fired Ceramic technology for the preparation of 3-dimesinal circuits, Microwave sintering of thermistor ceramics, Synthesis of Bio-compatible ceramics, Sintering of Rare Earth Doped Bismuth Titanate

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Ceramics prepared by Soft Combustion, nanostructured ceramics, alternative solid-state reaction routes yielding densified bulk ceramics and nanopowders, Sintering of intermetallic superconductors such as MgB₂, impurity doping in luminescence phosphors synthesized using soft techniques, etc. Other advanced sintering techniques such as radiation thermal sintering for the manufacture of thin film solid oxide fuel cells are also described.

Electric Traction for Railway Trains - Edward Parris Burch 1911

Electric Traction for Railway Trains: A Book for Students, Electrical and Mechanical Engineers, Superintendents of Motive Power and Others by Edward Parris Burch, first published in 1911, is a rare manuscript, the original residing in one of the great libraries of the world. This book is a reproduction of that original, which has been scanned and cleaned by state-of-the-art publishing tools for better readability and

enhanced appreciation. Restoration Editors' mission is to bring long out of print manuscripts back to life. Some smudges, annotations or unclear text may still exist, due to permanent damage to the original work. We believe the literary significance of the text justifies offering this reproduction, allowing a new generation to appreciate it.

MySQL Bible - Steve Suehring
2002-07-05

Organization: The book is divided into five parts: Getting Starated with MySQL and Relational Databases; Understanding SQL Through MySQL; MySQL Administration; MySQL Developer Guide; and Advanced and Specialized MySQL Topics. Comprehensive coverage: This Bible covers both beginning-level and advanced topics. Topics covered include: introduction to relational database management; installing and configuring MySQL on the Linux, Windows 2000, and Mac OS X operating systems; MySQL security; debugging

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and repairing MySQL databases and servers; MySQL performance tuning; and developing MySQL applications with Perl and PHP. Coverage of NuSphere MySQL: Due to the growing popularity of the NuSphere MySQL package, this book covers its enhancements and how to install and develop with NuSphere MySQL. Running

database application: This book builds an e-commerce sample database application throughout to demonstrate concepts and topics. ABOUT THE CD-ROM: What's on the CD-ROM: The CD-ROM includes the latest version of MySQL (either Version 4.0 or 4.1); sample database application and code in the book; and PHP and Perl.