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Market Microstructure - Frédéric Abergel 2012-04-03

The latest cutting-edge research on market microstructure Based on the December 2010 conference on market microstructure, organized with the help of the Institut Louis Bachelier, this guide brings together the leading thinkers to discuss this important field of modern finance. It provides readers with vital insight on the origin of the well-known anomalous "stylized facts" in financial prices series, namely heavy tails, volatility, and clustering, and illustrates their impact on the organization of markets, execution costs, price impact, organization liquidity in electronic markets, and other issues raised by high-frequency trading. World-class contributors cover topics including analysis of high-frequency data, statistics of high-frequency data, market impact, and optimal trading. This is a must-have guide for practitioners and academics in quantitative finance.

Introduction to Matrix Analytic Methods in Stochastic Modeling - G. Latouche 1999-01-01

Presents the basic mathematical ideas and algorithms of the matrix analytic theory in a readable, up-to-date, and comprehensive manner.

Salt in Prehistoric Europe - Anthony Harding 2013-11-01

Salt was a commodity of great importance in the ancient past, just as it is today. Its roles in promoting human health and in making food more palatable are well-known; in peasant societies it also plays a very important role in the preservation of foodstuffs and in a range of industries. Uncovering the evidence for the ancient production and use of salt has been a concern for historians over many years, but interest in the archaeology of salt has been a particular focus of research in recent times. This book charts the history of research on archaeological salt and traces the story of its production in Europe from earliest times down to the Iron Age. It presents the results of recent research, which has shown how much new evidence is now available from the different countries of Europe. The book considers new approaches to the archaeology of salt, including a GIS analysis of the oft-cited association between Bronze Age hoards and salt sources, and investigates the possibility of a new narrative of salt production in prehistoric Europe based on the role of salt in society, including issues of gender and the control of sources. The book is intended for both academics and the general reader interested in the prehistory of a fundamental but often under-appreciated commodity in the ancient past. It includes the results of the author's own research as well as an up-to-date survey of current work.

Volatility and Correlation - Riccardo Rebonato 2005-07-08

In *Volatility and Correlation* 2nd edition: *The Perfect Hedger and the Fox*, Rebonato looks at derivatives pricing from the angle of volatility and correlation. With both practical and theoretical applications, this is a thorough update of the highly successful *Volatility & Correlation* - with over 80% new or fully reworked material and is a must have both for practitioners and for students. The new and updated material includes a critical examination of the 'perfect-replication' approach to derivatives pricing, with special attention given to exotic options; a thorough analysis of the role of quadratic variation in derivatives pricing and hedging; a discussion of the informational efficiency of markets in commonly-used calibration and hedging practices. Treatment of new models including Variance Gamma, displaced diffusion, stochastic volatility for interest-rate smiles and equity/FX options. The book is split into four parts. Part I deals with a Black world without smiles, sets out the author's 'philosophical' approach and covers deterministic volatility. Part II looks at smiles in equity and FX worlds. It begins with a review of relevant empirical information about smiles, and provides coverage of local-stochastic-volatility, general-stochastic-volatility, jump-diffusion and Variance-Gamma processes. Part II concludes with an important chapter that discusses if and to what extent one can dispense with an explicit specification of a model, and can directly prescribe the dynamics of the smile surface. Part III focusses on interest rates when the volatility is deterministic. Part IV extends this setting in order to account for smiles

in a financially motivated and computationally tractable manner. In this final part the author deals with CEV processes, with diffusive stochastic volatility and with Markov-chain processes. Praise for the First Edition: "In this book, Dr Rebonato brings his penetrating eye to bear on option pricing and hedging.... The book is a must-read for those who already know the basics of options and are looking for an edge in applying the more sophisticated approaches that have recently been developed."

—Professor Ian Cooper, London Business School "Volatility and correlation are at the very core of all option pricing and hedging. In this book, Riccardo Rebonato presents the subject in his characteristically elegant and simple fashion...A rare combination of intellectual insight and practical common sense." —Anthony Neuberger, London Business School

Trades, Quotes and Prices - Jean-Philippe Bouchaud 2018-03-22

The widespread availability of high-quality, high-frequency data has revolutionised the study of financial markets. By describing not only asset prices, but also market participants' actions and interactions, this wealth of information offers a new window into the inner workings of the financial ecosystem. In this original text, the authors discuss empirical facts of financial markets and introduce a wide range of models, from the micro-scale mechanics of individual order arrivals to the emergent, macro-scale issues of market stability. Throughout this journey, data is king. All discussions are firmly rooted in the empirical behaviour of real stocks, and all models are calibrated and evaluated using recent data from Nasdaq. By confronting theory with empirical facts, this book for practitioners, researchers and advanced students provides a fresh, new, and often surprising perspective on topics as diverse as optimal trading, price impact, the fragile nature of liquidity, and even the reasons why people trade at all.

Nanomaterials for Sustainable Energy - Quan Li 2016-05-12

This book presents the unique mechanical, electrical, and optical properties of nanomaterials, which play an important role in the recent advances of energy-related applications. Different nanomaterials have been employed in energy saving, generation, harvest, conversion, storage, and transport processes very effectively and efficiently. Recent progress in the preparation, characterization and usage of 1D, 2D nanomaterials and hybrid architectures for energy-related applications and relevant technologies and devices, such as solar cells, thermoelectronics, piezoelectronics, solar water splitting, hydrogen production/storage, fuel cells, batteries, and supercapacitors is covered. Moreover, the book also highlights novel approaches in nanomaterials design and synthesis and evaluating materials sustainability issues. Contributions from active and leading experts regarding important aspects like the synthesis, assembly, and properties of nanomaterials for energy-related applications are compiled into a reference book. As evident from the diverse topics, the book will be very valuable to researchers working in the intersection of physics, chemistry, biology, materials science and engineering. It may set the standard and stimulates future developments in this rapidly emerging fertile frontier of nanomaterials for energy.

Book of Abstracts of the 60th Annual Meeting of the European Association for Animal Production - 2009

Aggression - Leonard Berkowitz 2011-12

Amphibians and reptiles - Trevor Beebee 2013-07-01

A comprehensive guide to the native and non-native species of amphibian and reptile found in the British Isles. It covers the biology, ecology, conservation and identification of the British herpetofauna, and provides keys to adults and young.

Thomas Register of American Manufacturers - 2002

This basic source for identification of U.S. manufacturers is arranged by product in a large multi-volume set. Includes: Products & services,

Company profiles and Catalog file.

Probing Experience - Joyce Westerink 2010-11-30

This book adheres to the vision that in the future compelling user experiences will be key differentiating benefits of products and services. It is the first book to combine academic and business viewpoints on measuring user experiences for product development. The book gathers authors from different backgrounds. This is a mosaic of their work, and that of Philips Research, in the assessment of user experience, covering the full range from academic research to commercial propositions.

Intelligent and Biosensors - Vernon Somerset 2010-01-01

The use of intelligent sensors have revolutionized the way in which we gather data from the world around us, how we extract useful information from that data, and the manner in which we use the newly obtained information for various operations and decision making. This book is an attempt to highlight the current research in the field of Intelligent and Biosensors, thereby describing state-of-the-art techniques in the field and emerging new technologies, also showcasing some examples and applications.

Handbook of Industrial Diamonds and Diamond Films - Mark A. Prelas 2018-12-19

Examines both mined and synthetic diamonds and diamond films. The text offers coverage on the use of diamond as an engineering material, integrating original research on the science, technology and applications of diamond. It discusses the use of chemical vapour deposition grown diamonds in electronics, cutting tools, wear resistant coatings, thermal management, optics and acoustics, as well as in new products.

Humanized Mice - Tatsuji Nomura 2008-03-11

The term humanized mouse in this text refers to a mouse in which human tissues and cells have been transplanted and show the same biological function as they do in the human body. That is, the physiological properties and functions of transplanted human tissues and cells can be analyzed in the mouse instead of using a living human body. It should therefore be possible to study the pathophysiology and treatment of human diseases in mice with good reproducibility. Thus, the humanized mouse can be used as a potent tool in both basic and clinical research in the future. The development of appropriate immunodeficient mice has been indispensable in the creation of the humanized mouse, which has been achieved through many years of efforts by several laboratories. The first stage on the road to the humanized mouse was the report on nude mice by Isaacson and Cattanach in 1962. Thereafter, nude mice were studied in detail by Falanigan and, in 1968, Pantelouris found that these mice have no thymus gland, which suggested that the mice lack transplantation immunity against xenografts such as human hematopoietic stem cells. At the Nude Mouse Workshops (organized by Regard, Povlsen, Nomura and colleagues) that were held nine times between 1972 and 1997, the possibility of creating a humanized mouse using nude mice was extensively examined. The results, however, showed that certain human cancers can be engrafted in nude mice, but unfortunately engraftment of normal human tissue was almost impossible.

High Performance Computing - Ponnuswamy Sadayappan 2020-06-16

This book constitutes the refereed proceedings of the 35th International Conference on High Performance Computing, ISC High Performance 2020, held in Frankfurt/Main, Germany, in June 2020.* The 27 revised full papers presented were carefully reviewed and selected from 87 submissions. The papers cover a broad range of topics such as architectures, networks & infrastructure; artificial intelligence and machine learning; data, storage & visualization; emerging technologies; HPC algorithms; HPC applications; performance modeling & measurement; programming models & systems software. *The conference was held virtually due to the COVID-19 pandemic. Chapters "Scalable Hierarchical Aggregation and Reduction Protocol (SHARP) Streaming-Aggregation Hardware Design and Evaluation", "Solving Acoustic Boundary Integral Equations Using High Performance Tile Low-Rank LU Factorization", "Scaling Genomics Data Processing with Memory-Driven Computing to Accelerate Computational Biology", "Footprint-Aware Power Capping for Hybrid Memory Based Systems", and "Pattern-Aware Staging for Hybrid Memory Systems" are available open access under a Creative Commons Attribution 4.0 International License via link.springer.com.

The Eagle Owl - Vincenzo Penteriani 2019-06-27

The Eagle Owl is one of the biggest owls in the world and is considered the most eclectic in terms of habitat, nest site and diet. An undisputed top predator, it can prey on a range of mammals up to the size of foxes, and almost every species of bird, reptile, amphibian and fish, as well as a

large spectrum of invertebrates. Surprisingly, it can also breed almost anywhere, laying its eggs on a variety of natural and artificial structures over an array of altitudes. Yet, despite being so adaptable, it is still a vulnerable species and has suffered widely from persecution as well as other threats including electrocution on power lines, decreasing prey availability, the effects of pesticides and pollutants, and habitat alteration. Vincenzo Penteriani and María del Mar Delgado have studied this fascinating bird extensively across its vast Eurasian range. In this book, they detail its remarkable ecology: distribution, breeding behaviour, foraging ecology, interspecific interactions, dispersal and conservation issues are all addressed, while the final two chapters provide a remarkable insight into vocal and visual communication. Scientists have long believed that owls and other crepuscular and nocturnal birds forgo the visual signals found in other avian species, but research on the Eagle Owl has indicated otherwise.

Mobile Technologies in the Ancient Sahara and Beyond - C. N.

Duckworth 2020-09-03

Examines key technological innovations, knowledge transfer, connectivity and social meaning in the ancient and Medieval Sahara.

Experiment Earth - Jack Stilgoe 2015-02-20

Experiments in geoengineering - intentionally manipulating the Earth's climate to reduce global warming - have become the focus of a vital debate about responsible science and innovation. Drawing on three years of sociological research working with scientists on one of the world's first major geoengineering projects, this book examines the politics of experimentation. Geoengineering provides a test case for rethinking the responsibilities of scientists and asking how science can take better care of the futures that it helps bring about. This book gives students, researchers and the general reader interested in the place of science in contemporary society a compelling framework for future thinking and discussion.

Epikarst - William Kreider Jones 2004

Safeguarding Livestock Diversity - 2006-01-01

Science Citation Index - 1992

Vols. for 1964- have guides and journal lists.

Ecological Impacts of Toxic Chemicals - Francisco Sánchez-Bayo, Paul J. van den Brink, Reinier M. Mann 2011-09-09

Ecological Impacts of Toxic Chemicals presents a comprehensive, yet readable account of the known disturbances caused by all kinds of toxic chemicals on both aquatic and terrestrial ecosystems. Topics cover the sources of toxicants, their fate and distribution through the planet, their impacts on specific ecosystems, and their remediation by natural systems. Each chapter is written by well-known specialists in those areas, for the general public, students, and even scientists from outside this field. The book intends to raise awareness of the dangers of chemical pollution in a world dominated by industry and globalization of resources. Because the problems are widespread and far reaching, it is hoped that confronting the facts may prompt better management practices at industrial, agricultural and all levels of management, from local to governmental, so as to reduce the negative impacts of chemical contaminants on our planet.

High-Frequency Trading - Irene Aldridge 2013-04-22

A fully revised second edition of the best guide to high-frequency trading High-frequency trading is a difficult, but profitable, endeavor that can generate stable profits in various market conditions. But solid footing in both the theory and practice of this discipline are essential to success. Whether you're an institutional investor seeking a better understanding of high-frequency operations or an individual investor looking for a new way to trade, this book has what you need to make the most of your time in today's dynamic markets. Building on the success of the original edition, the Second Edition of High-Frequency Trading incorporates the latest research and questions that have come to light since the publication of the first edition. It skillfully covers everything from new portfolio management techniques for high-frequency trading and the latest technological developments enabling HFT to updated risk management strategies and how to safeguard information and order flow in both dark and light markets. Includes numerous quantitative trading strategies and tools for building a high-frequency trading system Address the most essential aspects of high-frequency trading, from formulation of ideas to performance evaluation The book also includes a companion Website where selected sample trading strategies can be downloaded and tested Written by respected industry expert Irene Aldridge While interest in high-frequency trading continues to grow, little has been

published to help investors understand and implement this approach—until now. This book has everything you need to gain a firm grip on how high-frequency trading works and what it takes to apply it to your everyday trading endeavors.

Book of Abstracts of the 69th Annual Meeting of the European Federation of Animal Science - Scientific Committee 2018-08-31

This Book of Abstracts is the main publication of the 69th 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.

Book of Abstracts of the 62nd Annual Meeting of the European Association for Animal Production - Eaap 2011-08

This Book of Abstracts is the main publication of the 62nd Annual Meeting of the European Association for Animal Production (EAAP) held in Stavanger, Norway from 29 August - 2 September 2011. It contains abstracts of the invited papers and contributed presentations. The meeting addressed subjects relating to science and innovation. Also, important problems were discussed during the sessions of EAAP's nine 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. In addition joint sessions on topics interesting several disciplines and species were included in the programme.

Halophiles and Hypersaline Environments - Antonio Ventosa 2011-06-24

This book presents the latest results in the exploration of halophilic bacteria, archaea, fungi and viruses. Basic and molecular aspects as well as possible biotechnological applications of halophiles are highlighted by leading scientists. Topics include: the family Halomonadaceae; the hypersaline lakes of Inner Mongolia; *Salinibacter ruber* - from genomics to microevolution and ecology; the impact of lipidomics on the microbial world of hypersaline environments; molecular mechanisms of adaptation to high salt concentration in the black yeast *Hortaea werneckii*; viruses in hypersaline environments; initiation and regulation of translation in halophilic Archaea; protein transport into and across haloarchaeal cytoplasmic membranes; protein glycosylation in *Haloferax volcanii*; the effect of anoxic conditions and temperature on gas vesicle formation in *Halobacterium salinarum*; halophiles exposed to multiple stressors; cellular adjustments of *Bacillus subtilis* to fluctuating salinities; the nature and function of carotenoids in *Halobacillus halophilus*; xanthorhodopsin; enzymatic biomass degradation by halophilic microorganisms; and enzymes from halophilic Archaea.

Handbook of Economic Forecasting - Graham Elliott 2013-08-23

The highly prized ability to make financial plans with some certainty about the future comes from the core fields of economics. In recent years the availability of more data, analytical tools of greater precision, and ex post studies of business decisions have increased demand for information about economic forecasting. Volumes 2A and 2B, which follows Nobel laureate Clive Granger's Volume 1 (2006), concentrate on two major subjects. Volume 2A covers innovations in methodologies, specifically macroforecasting and forecasting financial variables. Volume 2B investigates commercial applications, with sections on forecasters' objectives and methodologies. Experts provide surveys of a large range of literature scattered across applied and theoretical statistics journals as well as econometrics and empirical economics journals. The Handbook of Economic Forecasting Volumes 2A and 2B provide a unique compilation of chapters giving a coherent overview of forecasting theory and applications in one place and with up-to-date accounts of all major conceptual issues. Focuses on innovation in economic forecasting via industry applications Presents coherent summaries of subjects in economic forecasting that stretch from methodologies to applications Makes details about economic forecasting accessible to scholars in fields outside economics

Optimization Methods in Finance - Gerard Cornuejols 2006-12-21

Optimization models play an increasingly important role in financial decisions. This is the first textbook devoted to explaining how recent advances in optimization models, methods and software can be applied to solve problems in computational finance more efficiently and accurately. Chapters discussing the theory and efficient solution methods for all major classes of optimization problems alternate with chapters illustrating their use in modeling problems of mathematical finance. The

reader is guided through topics such as volatility estimation, portfolio optimization problems and constructing an index fund, using techniques such as nonlinear optimization models, quadratic programming formulations and integer programming models respectively. The book is based on Master's courses in financial engineering and comes with worked examples, exercises and case studies. It will be welcomed by applied mathematicians, operational researchers and others who work in mathematical and computational finance and who are seeking a text for self-learning or for use with courses.

Intelligent Tutoring Systems - Vivekanandan Kumar 2020-06-03

This volume constitutes the proceedings of the 16th International Conference on Intelligent Tutoring Systems, ITS 2020, held in Athens, Greece, in June 2020. The 23 full papers and 31 short papers presented in this volume were carefully reviewed and selected from 85 submissions. They reflect a variety of new techniques, including multimodal affective computing, explainable AI, mixed-compensation multidimensional item response, ensemble deep learning, cohesion network analysis, spiral of silence, conversational agent, semantic web, computer-supported collaborative learning, and social network analysis.

Economic Risks of Climate Change - Trevor Houser 2015-08-18

Climate change threatens the economy of the United States in myriad ways, including increased flooding and storm damage, altered crop yields, lost labor productivity, higher crime, reshaped public-health patterns, and strained energy systems, among many other effects. Combining the latest climate models, state-of-the-art econometric research on human responses to climate, and cutting-edge private-sector risk-assessment tools, *Economic Risks of Climate Change: An American Prospectus* crafts a game-changing profile of the economic risks of climate change in the United States. This prospectus is based on a critically acclaimed independent assessment of the economic risks posed by climate change commissioned by the Risky Business Project. With new contributions from Karen Fisher-Vanden, Michael Greenstone, Geoffrey Heal, Michael Oppenheimer, and Nicholas Stern and Bob Ward, as well as a foreword from Risky Business cochairs Michael Bloomberg, Henry Paulson, and Thomas Steyer, the book speaks to scientists, researchers, scholars, activists, and policy makers. It depicts the distribution of escalating climate-change risk across the country and assesses its effects on aspects of the economy as varied as hurricane damages and violent crime. Beautifully illustrated and accessibly written, this book is an essential tool for helping businesses and governments prepare for the future.

Complexity and Synergetics - Stefan C. Müller 2017-11-16

All of us are confronted with complex phenomena occurring in daily life and in the living and inanimate nature surrounding us. Our scientific curiosity strives to unravel the mechanisms at work to create such complexity. Among various approaches to solve this problem, the field of synergetics, developed by Hermann Haken, has proven very successful as a general and interdisciplinary concept for describing and explaining complex phenomena that appear in systems under non-equilibrium conditions. These comprise dynamical states in evolving systems, spatial structure-forming processes, synchronization of states and regulatory mechanisms, and many other examples. The encompassing concepts have been applied to many disciplines, like physics, chemistry, biology, and beyond those also from synergetics to information theory, brain science, economics, and others. Starting from basic methods of complexity research and synergetics, this volume contains thirty contributions on complex systems that exhibit spontaneous pattern formation far from thermal equilibrium. Written by international experts and young researchers assembled under one roof, this volume reflects state of the art research from a variety of scientific fields and disciplines where complexity theory and synergetics are important or even indispensable tools today and in the future.

Book of Abstracts of the 72nd Annual Meeting of the European Federation of Animal Science - Scientific Committee 2021-08-30

This Book of Abstracts is the main publication of the 72nd 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.

Spatial Conservation Prioritization - Atte Moilanen 2009-05-28

In a coherent and comprehensive set of chapters, a team of leading scientists describe the present state-of-the-art in spatial conservation

planning methodology with a focus on operational definitions and methods, supported by the latest technological details and applications of publicly available software.

Assessment and Intervention for Executive Function Difficulties -

George McCloskey 2008-12-05

In *Assessment and Intervention for Executive Function Difficulties*, McCloskey, Perkins, and Diviner provide a unique blend of theory, research, and practice that offers clinicians an overarching framework for the concept of executive functions (EFs) in educational settings. The conceptual model of executive functions is detailed, including their role in behavior, learning, and production across all settings. The heart of the book focus on the practical issues involved in the use of assessment tools, tests, report writing, and the implementation and follow-up of targeted interventions using the EF model. Six case studies are introduced in Chapter 1 and followed throughout the book, building understanding of the executive function difficulties of each child, assessment for identifying the difficulties, and interventions for dealing with the difficulties. An additional case study is discussed in detail in one of the concluding chapters, and downloadable resources will provide the practitioner with a wealth of assessment forms, parent and teacher handouts, behavior tracking charts, and report/documentation forms.

Reverse Chemical Genetics - Hisashi Koga 2009-09-24

This book orchestrates the differential fields of technology in order to create a new era of the study of reverse chemical genetics. It introduces fundamental resources as well as the modification of these resources by recent molecular technologies.

Handbook of Road Ecology - Rodney van der Ree 2015-06-15

Winner of the IENE Project Award 2016. This authoritative volume brings together some of the world's leading researchers, academics, practitioners and transportation agency personnel to present the current status of the ecological sustainability of the linear infrastructure - primarily road, rail and utility easements - that dissect and fragment landscapes globally. It outlines the potential impacts, demonstrates how this infrastructure is being improved, and how broad ecological principles are applied to mitigate the impact of road networks on wildlife. Research and monitoring is an important aspect of road ecology, encompassing all phases of a transportation project. This book covers research and monitoring to span the entire project continuum - starting with planning and design, through construction and into maintenance and management. It focuses on impacts and solutions for species groups and specific regions, with particular emphasis on the unique challenges facing Asia, South America and Africa. Other key features: Contributions from authors originating from over 25 countries, including from all continents Each chapter summarizes important lessons, and includes lists of further reading and thoroughly up to date references Highlights principles that address key points relevant to all phases in all road projects Explains best-practices based on a number of successful international case studies Chapters are "stand-alone", but they also build upon and complement each other; extensive cross-referencing directs the reader to relevant material elsewhere in the book *Handbook of Road Ecology* offers a comprehensive summary of approximately 30 years of global efforts to quantify the impacts of roads and traffic and implement

effective mitigation. As such, it is essential reading for those involved in the planning, design, assessment and construction of new roads; the management and maintenance of existing roads; and the modifying or retrofitting of existing roads and problem locations. This handbook is an accessible resource for both developed and developing countries, including government transportation agencies, Government environmental/conservation agencies, NGOs, and road funding and donor organisations.

Book Of Abstracts Of The 54th Annual Meeting Of The European Association For Animal Production - Y. Van Der Honing 2003-09

Cattle Breeds - Marleen Felius 2007-09-01

More than 1,000 cattle breeds from around the globe are cataloged in this monumental bovine reference. Each breed, including species found only in prehistory, is provided with a detailed physical description and a watercolor drawn to scale. Cattle are also classified into groups and subgroups according to geographical distribution, historical background, and physical features. Charts indicating breed lineage and records of crossbreeding, maps clearly depicting the location and distribution of authentic and derived breeds, and additional color photographs all round out this unprecedented resource.

Electrochemical Methods of Nanostructure Preparation - László Péter 2021-04-24

This book summarizes the electrochemical routes of nanostructure preparation in a systematic and didactic manner. It provides a comprehensive overview of electrodeposition, anodization, carbon nanotube preparation and other methods of nanostructure fabrication, combining essential information on the physical background of electrochemistry with materials science aspects of the field. The book includes a brief introduction to general electrochemistry with an emphasis on physico-chemical aspects, followed by a description of the sample preparation methods. In each chapter, an overview of the particular method is accompanied by a discussion of the relevant physical or chemical properties of the materials, including magnetic, mechanical, optical, catalytic, sensoric and other features. While some preparation methods are discussed in connection with the theories of physical electrochemistry (e.g. electrodeposition), the book also covers methods that are more heuristic but nonetheless utilize electric current (e.g. anodization of porous alumina or synthesis of carbon nanotubes by means of electric arc discharge).

Book of Abstracts of the 66th Annual Meeting of the European Association for Animal Production - EAAP scientific committee 2015-08-21

This Book of Abstracts is the main publication of the 66th Annual Meeting of the European Federation for Animal Science 2015 in Warsaw, Poland. It contains abstracts of the invited papers and contributed presentations. The meeting addressed subjects relating to science and innovation. Important problems were also discussed during the sessions of EAAP's nine 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.