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WESTON LONDON

Miscellanea Mathematica Springer
Proceedings of the 1992 International Produced Water Symposium, San Diego, California, February 1992, held to provide a forum where scientists, regulators, industry, academia, and the environmental community could gather to hear and discuss the latest information related to the environmental conside
Intelligent Agents V: Agents Theories, Architectures, and Languages Springer
The Springer Handbook of Augmented Reality presents a comprehensive and authoritative guide to augmented reality (AR) technology, its numerous applications, and its intersection with emerging technologies. This book traces the history of AR from its early development, discussing the fundamentals of AR and its associated science. The handbook begins by presenting the development of AR over the last few years, mentioning the key pioneers and important milestones. It then moves to the fundamentals and principles of AR, such as photogrammetry, optics, motion and objects tracking, and marker-based and marker-less registration. The book discusses both software toolkits and techniques and hardware related to AR, before presenting the applications of AR. This includes both end-user applications like education and cultural heritage, and professional applications within engineering fields, medicine and architecture, amongst others. The book concludes with the convergence of AR with other emerging technologies, such as Industrial Internet of Things and Digital Twins. The handbook presents a comprehensive reference on AR technology from an academic, industrial and commercial perspective, making it an invaluable resource for audiences from a variety of backgrounds.
Springer Handbook of Petroleum Technology Springer Nature
The Second Edition of this book includes an abundance of examples to illustrate advanced concepts and brings out in a text book setting the algorithms for bivariate polynomial matrix factorization results that form the basis of two-dimensional systems theory. Algorithms and their implementation using symbolic algebra are emphasized.
A Course in Arithmetic Springer
Methods in Comparative Plant Ecology: A laboratory manual is a sister book to the widely acclaimed Comparative Plant Ecology by Grime, Hodgson and Hunt. It contains details on some 90 critical concise diagnostic techniques by over 40 expert contributors. In one volume it provides an authoritative bench-top guide to diagnostic techniques in experimental plant ecology.
Springer Handbook of Surface Science Springer Science & Business Media
The aim of the Handbook is to present readily accessible, but scholarly sources of information about educational research in the Asia-Pacific region. The scale and scope of the Handbook is such that the articles included in it provide substantive contributions to knowledge and understanding of education in the Asia region. In so doing, the articles present the problems and issues facing education in the region and the findings of research conducted within the region that contribute to the resolution of these problems and issues. Moreover, since new problems and issues are constantly arising, the articles in the Handbook also indicate the likely directions of future developments. The different articles within the Handbook seek to conceptualize the problems in each specific content area under review, provide an integration of the research conducted within that area, the theoretical basis of the research the practical implications of the research and the contribution of the research towards the resolution of the problems identified. Thus, the articles do not involve the reporting of newly conducted research, but rather require a synthesis of the research undertaken in a particular area, with reference to the research methods employed and the theoretical frameworks on which the research is based. In general, the articles do not advocate a single point of view, but rather, present alternative points of view and comment on the debate and disagreements associated with the conduct and findings of the research. Furthermore, it should be noted, that the Handbook is not concerned with research methodology, and only considers the methods employed in inquiry in so far as the particular methods of research contribute to the effective investigation of problems and issues that have arisen in the conduct and provision of education at different levels within the region.
The International Handbook of Educational Research in the Asia-Pacific Region Springer Science & Business Media
The three major aims of the present study were to (a) test some of the major game-theoretic solutions for n-person games in characteristic function form with data obtained from "rational" players; (b) locate, assess, and explain differences between sophisticated and naive subjects in coalition frequencies and payoff disbursements; and (c) provide a common data base for bargaining process analyses and testing of both present and future models. To this end, five quartets of subjects each partici pated in 16 different coalition formation tasks presented as computer-controlled, four-person, characteristic function games with sidepayments. All 20 subjects (a) were relatively

mathematically sophisticated, (b) were familiar with the major solution concepts for characteristic function games, (c) could safely assume that their co-players were equally sophisticated and knowledgeable, and (d) possessed a high motivation to maximize reward. The results showed that (a) sophisticated players are less restricted than naive players in coalition choice, (b) their payoffs are less variable and less ~galitarian, (c) these differences between the two populations of sub jects increase with the complexity of the game, and (d) for III the four-person, mDstly non-superadditive games played in the present experiment, the bargaining set M~i) accounts more accurately for payoff disbursements than do the competitive bargaining set H~i), the kernel K, and Selten's equal share analysis.

Kawasaki Disease Springer

This book explores how daily and seasonal rhythmicity is generated, how these rhythms are synchronised by our environment, and how they regulate the neuroendocrine systems that impact our physiology and behaviour. The constraints of surviving in a seasonal environment have shaped human evolution and migration, have shaped our societies and cultures, and continue to influence our everyday lives, health and wellbeing. Identifying the mechanisms whereby seasonal rhythmicity is generated and regulates the brain and body is not only important for understanding the natural world and relevant to animal production, it also offers many insights into the human condition. Each chapter is written by an international expert in the field of chronobiology. A historical perspective on how research into photoperiodism and rhythmicity progressed is initially provided, but the main focus of this book is on the remarkable studies in the last few decades that have unravelled the molecular and cellular machinery underpinning circadian and circannual timing. Topics covered include the role of melatonin in communicating seasonal information to the brain and pituitary gland, the neuroanatomical pathways in mammals, birds and fish by which changes in photoperiod reach the hypothalamus, the role of glial cells (tanycytes) and thyroid hormone in seasonal rhythmicity, neuroplasticity across seasons, effects of changing day length on mood, regulation of “clock“ gene expression, and the role of the suprachiasmatic nucleus. This book will appeal to all students and researchers who wish to learn about current and past research on daily and seasonal rhythmicity. This is the tenth volume in the International Neuroendocrine Federation (INF) Masterclass in Neuroendocrinology series (Volumes 1-7 published by Wiley) that aims to illustrate highest standards and encourage the use of the latest technologies in basic and clinical research and hopes to provide inspiration for further exploration into the exciting field of neuroendocrinology.

Parallel Robots Springer Science & Business Media

This book provides the most up-to-date information on the clinical research into and medical management of Kawasaki Disease, and opens the door for new pathological insights. Its nearly 50 sections cover basic research, genetic backgrounds, bacterial and biological evidence, and medical treatment with intravenous immunoglobulin, steroids, and recent anti-cytokine approaches. It offers an invaluable resource for general pediatricians, pediatric and adult cardiologists, pediatric cardiac surgeons, infectious disease specialists, pediatric rheumatologists, epidemiologists, and basic researchers in these disciplines.

Politics and Racism Beyond Nations Springer Science & Business Media

Many networked computer systems are far too vulnerable to cyber attacks that can inhibit their functioning, corrupt important data, or expose private information. Not surprisingly, the field of cyber-based systems is a fertile ground where many tasks can be formulated as learning problems and approached in terms of machine learning algorithms. This book contains original materials by leading researchers in the area and covers applications of different machine learning methods in the reliability, security, performance, and privacy issues of cyber space. It enables readers to discover what types of learning methods are at their disposal, summarizing the state-of-the-practice in this significant area, and giving a classification of existing work. Those working in the field of cyber-based systems, including industrial managers, researchers, engineers, and graduate and senior undergraduate students will find this an indispensable guide in creating systems resistant to and tolerant of cyber attacks.

Design of Organic Solids Springer Nature

A survey of the theory of coherent states, wavelets, and some of their generalizations, emphasizing mathematical structures. Starting from the standard theory of coherent states over Lie groups, the authors generalize the formalism by associating coherent states to group representations that are square integrable over a homogeneous space; a further step allows the group context to be dispensed with altogether. The unified background makes transparent otherwise obscure properties of wavelets and of coherent states. Many concrete examples, such as semisimple Lie groups, the relativity group, and several kinds of wavelets, are discussed in detail. The book concludes with physical applications, centering on the quantum measurement problem and the quantum-classical transition. Intended as an introduction to current research for graduate students and others entering the field, the mathematical discussion is self- contained. With its extensive references to the research literature, the book will also be a useful compendium of recent results for physicists and mathematicians already active in the field.

Making Trade Policy in the European Community Springer

The leading edge of computer science research is notoriously ?ckle. New trends come and go with alarming and unfailing regularity. In such a rapidly changing ?eld, the fact that research interest in a subject lasts more than a year is worthy of note. The fact that, after ?ve years, interest not only remains, but actually continues to grow is highly unusual. As 1998 marked the ?fth birthday of the International Workshop on Agent Theories, Architectures, and Languages (ATAL), it seemed appropriate for the organizers of the original workshop to comment on this remarkable growth, and re ect on how the ?eld has developed and matured. The ?rst ATAL workshop was co-located with the Eleventh European Conference on Arti?cial Intelligence (ECAI-94), which was held in Amsterdam. The fact that we chose an AI conference to co-locate with is telling: at that time, we expected most researchers with an interest in agents to come from the AI community. The workshop, whichwasplannedoverthesummerof1993,attracted32submissions, andwasattended by 55 people.ATAL was the largest workshop at ECAI-94, and the clear enthusiasm on behalfofthecommunitymadethedecisiontoholdanotherATALworksh opsimple.The ATAL-94proceedingswereformallypublishedinJanuary1995underth etitleIntelligent Agents, and included an extensive review article, a glossary, a list of key agent systems, and — unusually for the proceedings of an academic workshop — a full subject index. Thehighscienti?candproductionvaluesembodiedbytheATAL-94proc

eedingsappear to have been recognized by the community, and resulted inATAL proceedings being the most successful sequence of books published in Springer-Verlag s Lecture Notes in Arti?cial Intelligence series.

Comparative Plant Ecology Springer Science & Business Media

In essence, this text is written as a challenge to others, to discover significant uses for Cayley number algebra in physics. I freely admit that though the reading of some sections would benefit from previous experience of certain topics in physics - particularly relativity and electromagnetism - generally the mathematics is not sophisticated. In fact, the mathematically sophisticated reader, may well find that in many places, the rather deliberate progress too slow for their liking. This text had its origin in a 90-minute lecture on complex numbers given by the author to prospective university students in 1994. In my attempt to develop a novel approach to the subject matter I looked at complex numbers from an entirely geometric perspective and, no doubt in line with innumerable other mathematicians, re-traced steps first taken by Hamilton and others in the early years of the nineteenth century. I even enquired into the possibility of using an alternative multiplication rule for complex numbers (in which argzlz2 = argzl- argz2) other than the one which is normally accepted (argzlz2 = argzl + argz2). Of course, my alternative was rejected because it didn't lead to a 'product' which had properties that we now accept as fundamental (i. e.

Polymer Synthesis Polymer-Polymer Complexation Springer Science & Business Media

For most of the book the only prerequisites are the basic facts of algebraic geometry and number theory."--BOOK JACKET.

Survival Analysis Springer

Algebras of bounded operators are familiar, either as C*-algebras or as von Neumann algebras. A first generalization is the notion of algebras of unbounded operators (O*-algebras), mostly developed by the Leipzig school and in Japan (for a review, we refer to the monographs of K. Schmüdgen [1990] and A. Inoue [1998]). This volume goes one step further, by considering systematically partial *-algebras of unbounded operators (partial O*-algebras) and the underlying algebraic structure, namely, partial *-algebras. It is the first textbook on this topic. The first part is devoted to partial O*-algebras, basic properties, examples, topologies on them. The climax is the generalization to this new framework of the celebrated modular theory of Tomita-Takesaki, one of the cornerstones for the applications to statistical physics. The second part focuses on abstract partial *-algebras and their representation theory, obtaining again generalizations of familiar theorems (Radon-Nikodym, Lebesgue).

Single-Photon Imaging Springer Science & Business Media

This book discusses what internationalization practices are and the different ways that they are being implemented by higher education institutions in Japan, from a bottom-up perspective. It reflects the current situation faced by many Japanese universities in the context of the changing landscape in higher education and considerations in implementing changes to course curricula, programs, and university admissions with regard to internationalization. The four case studies presented provide readers with clear examples of how the internationalization of higher education institutions is developing within the Japanese higher education system, and the issues that different higher education institutions face in this process.

Coherent States, Wavelets and Their Generalizations Springer Science & Business Media

This book series looks at each of the main coastal habitats – salt marshes, sand dunes and sand/shingle shores, modified coastal grazing marshes/salinas and sea cliffs in turn. Each habitat is described in relation to its natural development and the way this has been influenced by human actions. The different states in which the habitats exist are reviewed against the pressures exerted upon them. Options for management are considered and the likely consequences of taking a particular course of action are highlighted.

Quaternions and Cayley Numbers American Mathematical Soc.

Considering the high level of our knowledge concerning covalent bond formation in the organic chemistry of molecules, our understanding of the principles involved in organic solid design is almost in its infancy. While chemists today are able to synthesize organic molecules of very high complexity using sophisticated methods of preparation, they lack general approaches enabling them to reliably predict organic crystalline or solid structures from molecular descriptors - no matter how simple they are. On the other hand, nearly all the organic matter surrounding us is not in the single-molecule state but aggregated and condensed to form liquid or solid molecular assemblages and structural arrays giving rise to the appearances and properties of organic compounds we usually observe. Obviously, the electrical, optical or magnetic properties of solid organic materials that are important requirements for future technologies and high-tech applications, as well as the stability and solubility behavior of a medicament depend on the structure of the molecule and the intramolecular forces, but even more decisively on the intermolecular forces, i. e. the packing structure of the molecules to which a general approach is lacking. This situation concerned]. Maddox some years ago to such a degree that he described it as "one of the continuing scandals in the physical sciences" [see (1998) Nature 335:201; see also Ball, P. (1996) Nature 381:648]. The problem of predicting organic solid and crystal structures is very dif- cult.

Internationalization within Higher Education Springer Science & Business Media

This handbook provides a comprehensive but concise reference resource for the vast field of petroleum technology. Built on the successful book "Practical Advances in Petroleum Processing" published in 2006, it has been extensively revised and expanded to include upstream technologies. The book is divided into four parts: The first part on petroleum characterization offers an in-depth review of the chemical composition and physical properties of petroleum, which determine the possible uses and the quality of the products. The second part provides a brief overview of petroleum geology and upstream practices. The third part exhaustively discusses established and emerging refining technologies from a practical perspective, while the final part describes the production of various refining products, including fuels and lubricants, as well as petrochemicals, such as olefins and polymers. It also covers process automation and real-time refinery-wide process optimization. Two key chapters provide an integrated view of petroleum technology, including environmental and safety issues.Written by international experts from academia, industry and research institutions, including integrated oil companies, catalyst suppliers, licensors, and consultants, it is an invaluable resource for researchers and graduate students as well as practitioners and professionals.

Multidimensional Systems Theory and Applications Springer Nature

Parallel robots are closed-loop mechanisms presenting very good

performances in terms of accuracy, velocity, rigidity and ability to manipulate large loads. They have been used in a large number of applications ranging from astronomy to flight simulators and are becoming increasingly popular in the field of machine-tool industry. This book presents a complete synthesis of the latest results on the possible mechanical architectures, analysis and synthesis of this type of mechanism. It is intended to be used by students (with over 150 exercises and numerous internet addresses), researchers (with over 650 references and anonymous ftp access to the code of some algorithms presented in this book) and engineers (for which practical results, mistakes to avoid, and applications are presented). Since the publication of the first edition (2000) there has been an impressive increase in terms of study and use of this kind of structure that are reported in this book. This second edition has been completely overhauled. The initial chapter on kinematics has been split into Inverse Kinematics and Direct Kinematics. A new chapter on calibration was added. The other chapters have also been rewritten to a large extent. The reference section has been updated to include around 45% new works that appeared after the first edition.

Produced Water Springer

The goal of this book is to present local class field theory from the cohomo logical point of view, following the method inaugurated by Hochschild and developed by Artin-Tate. This theory is about extensions-primarily abelian-of "local" (i.e., complete for a discrete valuation) fields with finite residue field. For example, such fields are obtained by completing an algebraic number field; that is one of the aspects of "localisation". The chapters are grouped in "parts". There are three preliminary parts: the first two on the general theory of local fields, the third on group coho mology. Local class field theory, strictly speaking, does not appear until the fourth part. Here is a more precise outline of the contents of these four parts: The first contains basic definitions and results on discrete valuation rings, Dedekind domains (which are their "globalisation") and the completion process. The prerequisite for this part is a knowledge of elementary notions of algebra and topology, which may be found for instance in Bourbaki. The second part is concerned with ramification phenomena (different, discriminant, ramification groups, Artin representation). Just as in the first part, no assumptions are made here about the residue fields. It is in this setting that the "norm" map is studied; I have expressed the results in terms of "additive polynomials" and of "multiplicative polynomials", since using the language of algebraic geometry would have led me too far astray.