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Finite Geometry and Character Theory CRC Press

Drawing from a decade-long collaboration between Japan and Russia, this important volume presents the first major synthesis of current knowledge on the ecophysiology of the coniferous forests growing on permafrost at high latitudes. It presents ecological data for a region long inaccessible to most scientists, and raises important questions about the global carbon balance as these systems are affected by the changing climate. Making up around 20% of the entire boreal forests of the northern hemisphere, these 'permafrost forest ecosystems' are subject to particular constraints in terms of temperature, nutrient availability, and root space, creating exceptional ecosystem characteristics not known elsewhere. This authoritative text explores their diversity, structure, dynamics and physiology. It provides a comparison of these forests in relation to boreal forests elsewhere, and concludes with an assessment of the potential responses of this unique biome to climate change. The book will be invaluable to advanced students and researchers interested in boreal vegetation, forest ecology, silviculture and forest soils, as well as to researchers into climate change and the global carbon balance.

Receding Horizon Control Springer Science & Business Media

Beretter om atlantehavsflyvninger, da dette stadig var en præstation inden for langdistanceflyvninger.

Difference Sets, Sequences and their Correlation Properties Springer

Set against the turbulence of the Irish conflicts is the fascinating true story of a policeman who did his job too well--and discovered that he had enemies in very high places.

Old Gravestones of Ulster County Springer Science & Business Media

Easy-to-follow learning structure makes absorption of advanced material as pain-free as possible Introduces complete theories for stability and cost monotonicity for constrained and non-linear systems as well as for linear systems In co-ordination with MATLAB® files available from springeronline.com, exercises and examples give the student more practice in the predictive control and filtering techniques presented **The Stalker Affair** Springer Science & Business Media

The explanation of the formal duality of Kerdock and Preparata codes is one of the outstanding results in the field of applied algebra in the last few years. This result is related to the discovery of large sets of quad riphase sequences over Z_4 whose correlation properties are better than those of the best binary sequences. Moreover, the correlation properties of sequences are closely related to difference properties of certain sets in (cyclic) groups. It is the purpose of this book to illustrate the connection between these three topics. Most articles grew out of lectures given at the NATO Advanced Study Institute on "Difference sets, sequences and their correlation properties". This workshop took place in Bad Windsheim (Germany) in August 1998. The editors thank the NATO Scientific Affairs Division for the generous support of this workshop. Without this support, the present collection of articles would not have been realized.

Biosynthesis of Antibiotics Springer

This book outlines the production of chitooligosaccharides and their derivatives and discusses their main biological activities, biomedical applications and their role in disease prevention. Chitooligosaccharides are products of chitosan or chitin degradation, prepared by enzymatic or chemical hydrolysis of chitosan, and they consist mainly of N-acetyl glucosamine and glucosamine bonded with a glycosidic bond. Compared to chitin and chitosan, chitooligosaccharides offer advantages for large-scale and commercial applications due to their solubility in water and lower molecular weight. Written by leading experts, this book is divided into four parts. The first part provides a general introduction to chitooligosaccharides. The second part focuses on the bioproduction of chitooligosaccharides through enzymatic synthesis and also covers physical and chemical methods of synthesis. The third part explores the major biological activities of chitooligosaccharides, including antioxidant, antimicrobial, anti-allergic, anti-inflammatory, anti-cancer and neuroprotective activities, and discusses the disease preventing mechanisms of chitooligosaccharides. In this section, readers will also find about the latest in vivo studies which support the use of chitooligosaccharides in the prevention and control of disease. The final part highlights important biomedical applications of chitooligosaccharides, including in tissue engineering, drug delivery and wound healing applications. It also includes the volume editor's perspective on the health and safety risks of chitooligosaccharides. Given its scope, this book is useful not only for researches in the field but also for students interested in biomaterials, pharmaceuticals, marine biotechnology, nutraceuticals and food science. **Applications & Services in Wireless Networks** Supply and Services Canada

Antimicrobial resistance is one of our most serious health threats. Infections from resistant bacteria are now too common, and some pathogens have even become resistant to multiple types or classes of antibiotics. The loss of effective antibiotics will undermine our ability to fight infectious diseases and manage the infectious complications common in vulnerable patients undergoing chemotherapy for cancer, dialysis for renal failure, and surgery, especially organ transplantation, for which the ability to treat secondary infections is crucial. This report discusses the complex problem of antibiotic resistance today and the potentially catastrophic consequences of inaction. Its purpose is to increase awareness of the threat that antibiotic resistance poses and to encourage immediate action to address the threat. This document can serve as a reference for anyone looking for information about antibiotic resistance. For more technical information, references and links are provided. Figures. This is a print on demand report.

Ikonografia Bogomateri Taylor & Francis

Difference sets are of central interest in finite geometry and design theory. One of the main techniques to investigate abelian difference sets is a discrete version of the classical Fourier transform (i.e., character theory) in connection with algebraic number theory. This approach is described using only basic knowledge of algebra and algebraic number theory. It contains not only most of our present knowledge about abelian difference sets, but also gives applications of character theory to projective planes with quasiregular collineation groups. Therefore, the book is of interest both to geometers and mathematicians working on difference sets. Moreover, the Fourier transform is important in more applied branches of discrete mathematics such as coding theory and shift register sequences.

The Freer Family Springer Nature

Exploring connections between adaptive control theory and practice, this book treats the techniques of linear quadratic optimal control and estimation (Kalman filtering), recursive identification, linear systems theory and robust arguments.

Constructive Nonlinear Control

Thermophilic Bacteria is a comprehensive volume that describes all major bacterial groups that can grow above 60-65 ° C (excluding the Archaea). Over 60 different species of aerobic and anaerobic thermophilic bacteria are covered. Isolation, growth methods, characterization and identification, ecology, metabolism, and enzymology of thermophilic bacteria are examined in detail, and an extensive compilation of recent biotechnological applications and the properties of many thermostable enzymes are also included. Major topics discussed in the book include a general review on thermophilic bacteria and archaea; heterotropic bacilli; the genus Thermus; new and rare genera of aerobic heterophophs, such as Saccharococcus, Rhodothermus, and Scotothermus; aerobic chemolithoautotrophic thermophilic bacteria; obligately anaerobic thermophilic bacteria; and hyperthermophilic Thermotogales and thermophilic phototrophs. Extensive bibliographies are also provided for each chapter. The vast amount of information packed into this one volume makes it essential for all microbiologists, biochemists, molecular biologists, and students interested in the expanding field of thermophilicity. Biotechnologists will find the book useful as a source of information on thermophiles or thermostable enzymes of possible industrial use.

Bengali Self-taught

Constructive Nonlinear Control presents a broad repertoire of constructive nonlinear designs not available in other works by widening the class of systems and design tools. Several streams of nonlinear control theory are merged and directed towards a constructive solution of the feedback stabilization problem. Analysis, geometric and asymptotic concepts are assembled as design tools for a wide variety of nonlinear phenomena and structures. Geometry serves as a guide for the construction of design procedures whilst analysis provides the robustness which geometry lacks. New recursive designs remove earlier restrictions on feedback passivation. Recursive Lyapunov designs for feedback, feedforward and interlaced structures result in feedback systems with optimality properties and stability margins. The design-oriented approach will make this work a valuable tool for all those who have an interest in control theory.

International Monetary Co-operation

The Indian Ocean tsunami of December 2004 is considered to have been one of the worst natural disasters in history, affecting twelve countries, from Indonesia to Somalia. 175,000 people are believed to have lost their lives, almost 50,000 were registered as missing and 1.7 million people were displaced. As well as this horrendous toll on human life

Model Predictive Control

Orthogonal designs have proved fundamental to constructing code division multiple antenna systems for more efficient mobile communications. Starting with basic theory, this book develops the algebra and combinatorics to create new communications modes. Intended primarily for researchers, it is also useful for graduate students wanting to understand some of the current communications coding theories.

Synthetic Biology

Ikonografia Bogomateri by Akademiai nauk SSSR. Otdelenie russkogo iazyka i slovesnosti, first published in 1914, 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.

Orthogonal Designs

The Rise and Progress of the English Commonwealth

They Flew the Atlantic

Thermophilic Bacteria

Chitooligosaccharides

The Story of the Arndts