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KEY=S - COMPTON LEWIS

Analytical and Numerical Methods for Differential Equations and Applications

Frontiers Media SA

Prion

An Overview

BoD - Books on Demand **Protein aggregation causes malfunction in several biochemical processes. Genetic and spontaneous formations of these transmissible spongiform encephalopathies are fatal to humans and animals. Conformational change of normal form of the protein to misfolded form causes its accumulation. The misfolded infectious protein agent forms the pathogenesis of the disease. This book presents pathology of the disease along with current knowledge of the structure-activity mechanism in the first two sections. Dyshomeostasis of metals is implicated in the pathogenesis of prions, and this influence is discussed further to understand the prion mechanism. Genetic resistance and immunobiology of the disease are elaborated in the following section. Finally, a computational study on the dynamics of the prion propagation provides a structural basis of the mechanism.**

New Trends in Fractional Differential Equations with Real-World Applications in Physics

Frontiers Media SA

Learning to teach in post-apartheid South Africa

Student Teachers' Encounters with Initial Teacher Education

AFRICAN SUN MeDIA **Teacher education programmes seek to provide student teachers with the knowledge and expertise to provide quality teaching and learning in a diverse and challenging school context. Learning to Teach in post-apartheid South Africa: Student Teachers' Encounters with Initial Teacher Education addresses the complexities of teacher education programmes in preparing students to teach. It adds to the knowledge about teacher education, contributing critical understanding of education and the schooling system. The book provides important insights to deepen researchers, academics, teacher education providers, policy-makers, and students' understanding of the importance to address equity, redress, and quality in South African education in a post-apartheid era. This book further helps to build student teachers' capacities to work creatively and to become active and critical agents of transformation. It ultimately outlines the challenges face in designing and delivering successful Initial Teacher Education programmes, and the impact this has**

on delivering equitable and quality education.

Advanced Practical Approaches to Web Mining Techniques and Application

IGI Global The rapid increase of web pages has introduced new challenges for many organizations as they attempt to extract information from a massive corpus of web pages. Finding relevant information, eliminating irregular content, and retrieving accurate results has become extremely difficult in today's world where there is a surplus of information available. It is crucial to further understand and study web mining in order to discover the best ways to connect users with appropriate information in a timely manner. **Advanced Practical Approaches to Web Mining Techniques and Application** aims to illustrate all the concepts of web mining and fosters transformative, multidisciplinary, and novel approaches that introduce the practical method of analyzing various web data sources and extracting knowledge by taking into consideration the unique challenges present in the environment. Covering a range of topics such as data science and security threats, this reference work is ideal for industry professionals, researchers, academicians, practitioners, scholars, instructors, and students.

University of Wyoming Publications

Abstracts of Graduates Theses, 1956-1971

Graduate Theses

Iterative Methods for Sparse Linear Systems

Second Edition

SIAM Mathematics of Computing -- General.

Applied Analysis, Computation and Mathematical Modelling in Engineering

Select Proceedings of AACMME 2021

Springer Nature This book is a compendium of the proceedings of the International Conference on Applied Analysis, Computation, and Mathematical Modelling in Engineering (AACMME-2021). The book covers a variety of applications such as mechanical, acoustical, physical, electrical, bio-mathematical, and computational fluid dynamics. Since mathematical modeling necessitates a wide range of skills and methods, the book concentrates on techniques that will be of specific interest to engineers, scientists, and those who work with discrete and continuous systems models. This book guides students, researchers, and professionals through the new approaches, the powerful tools for quickly mastering the most popular mathematical and computational models used in engineering and science. These new approaches enable readers to not only systematically create effective models, but also extend these models to any macroscopic physical structure.

Science and Civilisation in China: Volume 3, Mathematics and the Sciences of the Heavens and the Earth

Cambridge University Press After two volumes mainly introductory, Dr Needham now embarks upon his systematic study of the development of the natural sciences in China. The Sciences of the Earth follow: geography and cartography, geology, seismology and mineralogy. Dr Needham distinguishes parallel traditions of scientific cartography and religious cosmography in East and West, discussing orbocentric wheel-maps, the origins of the rectangular grid system, sailing charts and relief maps, Chinese survey methods, and the impact of Renaissance cartography on the East. Finally-and here Dr Needham's work has no Western predecessors-there are full accounts of the Chinese contribution to geology and mineralogy.

Mathematical Reviews

Publications

Index Libanicus: Theses submitted at universities in Lebanon, 1906-1980

Notes on Diffy Qs

Differential Equations for Engineers

Version 6.0. An introductory course on differential equations aimed at engineers. The book covers first order ODEs, higher order linear ODEs, systems of ODEs, Fourier series and PDEs, eigenvalue problems, the Laplace transform, and power series methods. It has a detailed appendix on linear algebra. The book was developed and used to teach Math 286/285 at the University of Illinois at Urbana-Champaign, and in the decade since, it has been used in many classrooms, ranging from small community colleges to large public research universities. See <https://www.jirka.org/diffyqs/> for more information, updates, errata, and a list of classroom adoptions.

The Photographic Times

Great Muslim Mathematicians

Penerbit UTM This book presents detailed accounts and analysis of the lives and world view of selected mathematicians of the Islamic period, their place in the world of science, the popularization of their lives, and their contributions specifically in mathematics and astronomy.

Fuzzy Sets and Economics

Applications of Fuzzy Mathematics to Non-cooperative Oligopoly

Edward Elgar Publishing The widespread use of fuzzy set theory in almost every science attests to its intuitive appeal and the powerful insights it offers. Despite its relevance as a tool for evaluating non-stochastic behavioural uncertainty and its clear applicability to the business world, fuzzy mathematics has yet to establish itself in mainstream economic analysis. *Fuzzy Sets and Economics* presents a clear and concise introduction to fuzzy mathematics and demonstrates its adaptability to the analysis of oligopolistic competition. In particular, the author indicates how the economic evaluation of non-cooperative oligopoly markets is changed when fuzzy set mathematics is used. The neoclassical view that oligopolistic competition is inefficient is shown only to apply in the short run while policy matters, such as antitrust, and some basic economic fundamentals, such as the supply-demand paradigm, are affected by the introduction of a fuzzy mathematics framework.

Publications

Abstracts of Graduate Theses

Rudiments of Mathematics Part 1

Academic Publishers

Royal Society of London Catalogue of Scientific Papers 1800-1900 Subject Index Volume i Pure Mathematics

CUP Archive

African Indigenous Knowledge and the Disciplines

Springer This text explores the multidisciplinary context of African Indigenous Knowledge Systems from scholars and scholar activists committed to the interrogation, production, articulation, dissemination and general development of endogenous and indigenous modes of intellectual activity and praxis. The work reinforces the demand for the decolonization of the academy and makes the case for a paradigmatic shift in content, subject matter and curriculum in institutions in Africa and elsewhere - with a view to challenging and rejecting disinformation and intellectual servitude. Indigenous intellectual discourses related to diverse disciplines take center stage in this volume with a focus on education, mathematics, medicine, chemistry and engineering in their historical and contemporary context.

International Advanced Researches & Engineering Congress 2017 Proceeding Book

Dr. R. HALICIOGLU INTERNATIONAL WORKSHOPS (at IAREC'17) (This book includes English (main) and Turkish languages) International Workshop on Mechanical Engineering International Workshop on Mechatronics Engineering International Workshop on Energy Systems Engineering International Workshop on Automotive Engineering and Aerospace Engineering International Workshop on Material Engineering International Workshop on Manufacturing Engineering International Workshop on Physics Engineering International Workshop on Electrical and Electronics Engineering International Workshop on Computer Engineering and Software Engineering International Workshop on Chemical Engineering International Workshop on Textile Engineering International Workshop on Architecture International Workshop on Civil Engineering International Workshop on Geomatics Engineering International Workshop on Industrial Engineering International Workshop on Food Engineering International Workshop on Aquaculture Engineering International

Workshop on Agriculture Engineering International Workshop on Mathematics Engineering International Workshop on Bioengineering Engineering International Workshop on Biomedical Engineering International Workshop on Genetic Engineering International Workshop on Environmental Engineering International Workshop on Other Engineering Science

Lichen-Derived Products

Extraction and Applications

John Wiley & Sons The purpose of this book is to provide reference material that includes current developments along with a future outlook on the topic. It is divided into two sections; "Morphological Overview and Extraction Prospects" and "Trends and Applications". Part I contains four chapters that provide an overview and systematically discuss the physical morphology, suitability and extraction aspects of lichens and their secondary metabolites. Part II includes eight chapters that give in-depth insights on recent and valuable applications of lichen and their obtained products in several applied sectors, including ethnopharmacology, therapeutics, paper and dye, nutraceuticals, cosmetics, herbal industries, etc.

Scientific and Technical Aerospace Reports

Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database.

Science and Technology in Islam: The exact and natural sciences

UNESCO Research into Islamic science and technology is still in its early stages, but there is now sufficient material available for a preliminary study. Volume IV is intended to fill a gap which deserves a major multi-volume work. Part I is a review of the history of science in Islam. It deals with the contribution of Islamic civilization to mathematics, astronomy, and physics, which have long been acknowledged, but also advances made by Muslim scientists in the fields of cosmology, geology and mineralogy, zoology, veterinary science and botany.

Teacher Empowerment Toward Professional Development and Practices

Perspectives Across Borders

Springer This book gathers a range of contributions from researchers and practitioners across borders with an emphasis on theoretical arguments and empirical data concerning teacher empowerment. It propels readers to explore powerful teaching practices that can further advance the profession as a continuing priority in the system when appropriately utilized. Further, it strives to capture teachers' readiness to improve their professional skills and responsive practices as a form of accountability for their teaching and students' learning, two aspects that are increasingly being judged by various stakeholders. The book argues that teachers' autonomous participation and engagement in relevant decision-making activities and equitable access to continuing professional development opportunities are and should remain major priorities.

From Alexandria, Through Baghdad

Surveys and Studies in the Ancient Greek and Medieval Islamic Mathematical Sciences in Honor of J.L. Berggren

Springer Science & Business Media This book honors the career of historian of mathematics J.L. Berggren, his scholarship, and service to the broader community. The first part, of value to scholars, graduate students, and interested readers, is a survey of scholarship in the mathematical sciences in ancient Greece and medieval Islam. It consists of six articles (three by Berggren himself) covering research from the middle of the 20th century to the present. The remainder of the book contains studies by eminent scholars of the ancient and medieval mathematical sciences. They serve both as examples of the breadth of current approaches and topics, and as tributes to Berggren's interests by his friends and colleagues.

Mathematical Methods

For Students of Physics and Related Fields

Springer Science & Business Media Intended to follow the usual introductory physics courses, this book contains many original, lucid and relevant examples from the physical sciences, problems at the ends of chapters, and boxes to emphasize important concepts to help guide students through the material.

Innovations in Electronics and Communication Engineering

Proceedings of the 6th ICIECE 2017

Springer The book is a collection of best selected research papers presented at 6th International Conference on Innovations in Electronics and Communication Engineering at Guru Nanak Institutions Hyderabad, India. The book presents works from researchers, technocrats and experts about latest technologies in electronic and communication engineering. The book covers various streams of communication engineering like signal processing, VLSI design, embedded systems, wireless communications, and electronics and communications in general. The authors have discussed the latest cutting edge technology and the volume will serve as a reference for young researchers.

Reviews in Complex Analysis, 1980-86

Who's who in Technology Today

Regenerative Engineering

CRC Press Distinct from tissue engineering, which focuses primarily on the repair of tissues, regenerative engineering focuses on the regeneration of tissues: creating living, functional tissue that has the ability to replace organs that are dysfunctional. The challenge of working in an area like regenerative engineering lies, in part, in the breadth of information required to truly appreciate and begin to think about this field. Regenerative Engineering introduces the field through the presentation of fundamental concepts of cell biology, stem cell science, materials science, and cell-material interactions. It also focuses on specific organ and tissue types and presents up-to-date examples of ongoing work, often in the context of a specific clinical need. Regenerative medicine focuses on the biological aspects of tissue regeneration via stem cells, factors, and cytokines, while tissue engineering focuses on the integration of materials science and life sciences. This book integrates these two areas, presenting each concept in the framework of regenerative

engineering. Features: Covers a number of cutting-edge topics related to regenerative medicine and tissue engineering Includes an introductory chapter on materials science Features a number of the contributors who are world-class researchers, one of whom is Dr. Anthony Atala, whose work dealing with organ regenerative engineering was featured on Sixty Minutes Incorporates problem-based learning throughout the text, which is not hypothetical but based on actual biological, engineering, or clinical scenarios Combining science, engineering and medicine, Regenerative Engineering incorporates all of the essential elements needed for further advancement in this field. The book explores the development and examination of vital organs and tissue types and addresses concerns as it relates to the regenerative engineering of various organ tissues, vascular tissues, bone, ligament, neural tissue, and the interfaces between tissues.

Studies in the History of the Exact Sciences in Honour of David Pingree

BRILL This collection of essays reflects the wide range of David Pingree's expertise in the scientific texts (above all, concerning astronomy and astrology) of Ancient Mesopotamia, Greece, India, Persia, and the medieval Arabic, Hebrew and Latin traditions. Both theoretical aspects and the practical applications of the exact sciences-in time keeping, prediction of the future, and the operation of magic-are dealt with. The book includes several critical editions and translations of hitherto unknown or understudied texts, and a particular emphasis is on the diffusion of scientific learning from one culture to another, and through time. Above all, the essays show the variety and sophistication of the exact sciences in non-Western societies in pre-modern times.

Masters Abstracts International

Catalogue of Library Books, June 1980

Who's who in Technology Today

Neutrosophic Sets and Systems, Book Series, Vol. 31, 2020. An International Book Series in Information Science and Engineering

Infinite Study "Neutrosophic Sets and Systems" has been created for publications on advanced studies in neutrosophy, neutrosophic set, neutrosophic logic, neutrosophic probability, neutrosophic statistics that started in 1995 and their applications in any field, such as the neutrosophic structures developed in algebra, geometry, topology, etc.

Who's who in Technology