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Media Poetry Frontiers Media SA

DECISION MAKING IN MEDICINE offers an algorithmic approach to the diagnosis and treatment of common disorders and diseases. by providing nearly 250 clinical decision making algorithms, this practical reference helps you arrive at the proper diagnosis and also leads you to the appropriate therapy or course of action. Brief text appears on the page facing each algorithm to provide additional explanations or details about key decision points on the algorithm. Topics are organized by sign, symptom, problem, or laboratory abnormality. the consistent format and decision tree approach of DECISION MAK

The Stimulated Brain John Wiley & Sons

The chemicals from plant sources, generally termed as phytochemicals, play an important role in acceptance or rejection of the plant by the pests as they could be distasteful or toxic on one hand or on the other hand specialist herbivores have the capability to feed on many such chemicals, as they are able to process these natural products in a manner that is beneficial to them. In the wake of increasing environmental degradation due to burgeoning synthetic chemicals, there has been a process going on to rediscover the usefulness of plants and herbs and a continued effort for more than 2 decades has been to study the green products for cures for several ailments and pest management. In fact, according to Indian Medicinal Plants: A Sectoral Study, the global trade for medicinal plants amounts to about US $ 60 billion and the world demand continues to grow at the rate of 7 per cent per annum. Although many such plants are known in literature, neem has been one of trees with mani-fold virtues. Indian neem tree, Azadirachta indica A. Juss, which is a large evergreen tree, is an outstanding example among plants that has been subject matter of numerous scientific

studies concerning its utilization in medicine, industry and agriculture. So far neem preparations have been evaluated against more than 500 species of insects and more than 400 hundred are reported to be susceptible at different concentrations.

Complexity in Interdisciplinary Research and Applications Elsevier

"Fundamentals of Tissue Engineering and Regenerative Medicine" provides a complete overview of the state of the art in tissue engineering and regenerative medicine. Tissue engineering has grown tremendously during the past decade. Advances in genetic medicine and stem cell technology have significantly improved the potential to influence cell and tissue performance, and have recently expanded the field towards regenerative medicine. In recent years a number of approaches have been used routinely in daily clinical practice, others have been introduced in clinical studies, and multitudes are in the preclinical testing phase. Because of these developments, there is a need to provide comprehensive and detailed information for researchers and clinicians on this rapidly expanding field. This book offers, in a single volume, the prerequisites of a comprehensive understanding of tissue engineering and regenerative medicine. The book is conceptualized according to a didactic approach (general aspects: social, economic, and ethical considerations; basic biological aspects of regenerative medicine: stem cell medicine, biomolecules, genetic engineering; classic methods of tissue engineering: cell, tissue, organ culture; biotechnological issues: scaffolds; bioreactors, laboratory work; and an extended medical discipline oriented approach: review of clinical use in the various medical specialties). The content of the book, written in 68 chapters by the world's leading research and clinical specialists in their discipline, represents therefore the recent intellect, experience, and state of this bio-medical field.

The Information Intellect Books

This is an admirably concise and clear guide to fundamental concepts in physiology relevant to clinical practice. It covers all the body systems in an accessible style of presentation. Bulleted checklists and boxed information provide an easy overview and summary of the essentials. By concentrating on the core knowledge of physiology, it will serve as a useful revision aid for all doctors striving to achieve postgraduate qualification, and for anyone needing to refresh their knowledge base in the key elements of clinical physiology. The author's own experience as an examiner at all levels has been distilled here for the benefit of postgraduate trainees and medical and nursing students.

First International Conference, ICDHM 2007, Held as Part of HCI International 2007, Beijing, China, July 22-27, 2007, Proceedings Springer

In this text, algebra and trigonometry are presented as a study of special classes of functions. In the process, relationships betwen theory and real-world applications are thoroughly explored, bringing the material to life. Suitable for a second-year course, a trigonometry course, or a pre-calculus course.

Rodak's Hematology - E-Book Cambridge University Press

We ve all had the experience of watching a film and feeling like we ve been in a trance. This book takes that experience seriously, explaining cinema as a cultural technique of trance, one that

unconsciously transforms our perceptions. Ute Holl moves from anthropological and experimental cinema through nineteenth-century psychological laboratories, which she shows developed technique of testing, measuring, and classifying the mind that can be seen as a prehistory of cinema, one that allows us to see the links among cinema, anthropology, psychology, and cybernetics."

Functions and Applications Springer Science & Business Media

Precalculus with Trigonometry: Concepts and Applications

Trigonometry Elsevier Health Sciences

This book is based on the outcome of the “2012 Interdisciplinary Symposium on Complex Systems” held at the island of Kos. The book consists of 12 selected papers of the symposium starting with a comprehensive overview and classification of complexity problems, continuing by chapters about complexity, its observation, modeling and its applications to solving various problems including real-life applications. More exactly, readers will have an encounter with the structural complexity of vortex flows, the use of chaotic dynamics within evolutionary algorithms, complexity in synthetic biology, types of complexity hidden inside evolutionary dynamics and possible controlling methods, complexity of rugged landscapes, and more. All selected papers represent innovative ideas, philosophical overviews and state-of-the-art discussions on aspects of complexity. The book will be useful as instructional material for senior undergraduate and entry-level graduate students in computer science, physics, applied mathematics and engineering-type work in the area of complexity. The book will also be valuable as a resource of knowledge for practitioners who want to apply complexity to solve real-life problems in their own challenging applications. The authors and editors hope that readers will be inspired to do their own experiments and simulations, based on information reported in this book, thereby moving beyond the scope of the book.

Introduction to Epilepsy Springer Science & Business Media

Precalculus with TrigonometryConcepts and ApplicationsSpringer Science & Business Media

Recent Advances in Psychiatry from Psycho-Neuro-Immunology Research: Autoimmunencephalitis, Autoimmune-Encephalopathy, Mild Encephalitis Springer Science & Business Media

Theory of Superconductivity is primarily intended to serve as a background for reading the literature in which detailed applications of the microscopic theory of superconductivity are made to specific problems.

Cinema, Trance and Cybernetics Pearson Prentice Hall

This book provides a comprehensive overview on Transcranial Direct Current Stimulation (tDCS) and the clinical applications of this promising technique. Separated into three parts, the book begins with basic principles, mechanisms and approaches of tDCS. This is followed by a step-by-step practicum, methodological considerations and ethics and professional conduct pertaining to this novel technique. Chapters are authored by renowned experts who also direct and plan tDCS educational events worldwide. Bridging the existing gap in instructional materials for tDCS while addressing growing interest in education in this field, professionals within a broad range of medical disciplines will find this text to be an invaluable guide.

Concepts and Applications Springer Science & Business Media

In this day where research grants are the primary focus, many young investigators are thrown into neurosciences courses without any prior preparation in neuroanatomy. This book is designed to help prepare them by introducing many of the fundamentals of the nervous system. It represents the essentials of an upper level biology course on the central nervous system. It is not designed to be a clinical approach to the nervous system, but rather it approaches the nervous system from a basic science perspective that intertwines both structure and

function as an organizing teaching and learning model. Medical and dental examples are included but the main focus is on neuroscience.

Calculus Springer

This book highlights an unprecedented number of real-life applications of differential equations together with the underlying theory and techniques. The problems and examples presented here touch on key topics in the discipline, including first order (linear and nonlinear) differential equations, second (and higher) order differential equations, first order differential systems, the Runge-Kutta method, and nonlinear boundary value problems. Applications include growth of bacterial colonies, commodity prices, suspension bridges, spreading rumors, modeling the shape of a tsunami, planetary motion, quantum mechanics, circulation of blood in blood vessels, price-demand-supply relations, predator-prey relations, and many more. Upper undergraduate and graduate students in Mathematics, Physics and Engineering will find this volume particularly useful, both for independent study and as supplementary reading. While many problems can be solved at the undergraduate level, a number of challenging real-life applications have also been included as a way to motivate further research in this vast and fascinating field.

The Science and Applications of Acoustics Springer

This book constitutes the refereed proceedings of the First International Conference on Digital Human Modeling, DHM 2007, held in Beijing, China in July 2007. The papers thoroughly cover the thematic area of digital human modeling, addressing the following major topics: shape and movement modeling and anthropometry, building and applying virtual humans, medical and rehabilitation applications, as well as industrial and ergonomic applications.

Harmonic Function Theory Cambridge University Press

Covers all aspects of epilepsy, from basic mechanisms to diagnosis and management, as well as legal and social considerations.

Functions and Applications Springer Science & Business Media

This book is about harmonic functions in Euclidean space. This new edition contains a completely rewritten chapter on spherical harmonics, a new section on extensions of Bochers Theorem, new exercises and proofs, as well as revisions throughout to improve the text. A unique software package supplements the text for readers who wish to explore harmonic function theory on a computer.

An Algorithmic Approach Thieme

Highly computer-oriented text, introducing numerical methods and algorithms along with the applications and conceptual tools. Includes homework problems, suggestions for research projects, and open-ended questions at the end of each chapter. Written by our successful author who also wrote Continuous System Modeling, a best-selling Springer book first published in the 1991 (sold about 1500 copies).

Volume 1: Fundamentals Cambridge University Press

This book covers both classical and modern analytical methods in nonlinear systems. A wide range of applications from fundamental research to engineering problems are addressed. The book contains seven chapters, each with miscellaneous problems and their detailed solutions. More than 100 practice problems are illustrated, which might be useful for students and researchers in the areas of nonlinear oscillations and applied mathematics. With providing real world examples, this book shows the multidisciplinary emergence of nonlinear dynamical systems in a wide range of applications including mechanical and electrical oscillators, micro/nano resonators and sensors, and also modelling of global warming, epidemic diseases, sociology, chemical reactions, biology and ecology.

Theory Of Superconductivity Springer

Growing evidence derived from cerebrospinal fluid (CSF), neuropathological, imaging, genetic, and epidemiological studies link neuroinflammation and immune dysregulation to a subset of individuals with a variety of severe mental disorders (SMDs), including affective and non-affective psychotic disorders. Further, the recent discoveries of neuronal

surface antibodies (NSAs) in autoimmune encephalitis (AE) presenting with diverse neuropsychiatric disorders such as psychosis and cognitive decline, among many others, provides further support to the notion that CNS autoimmunity and neuroinflammation can contribute to the neurobiology of psychiatric disturbances. Further, these immune mechanisms may contribute to a subset of patients currently diagnosed as having treatment-resistant SMDs such as schizophrenia and major depressive disorder. Additionally, mounting data indicate that various infections can serve as an immunological trigger of aberrant immune responses, presumably by causing release of excess neural antigen, thereby giving rise to NSAs or aberrant immune cellular responses to give rise to primary or secondary psychiatric disorders such as schizophrenia and those associated with AE, respectively. Collectively, these findings support the “ mild encephalitis ” hypothesis of SMD. The significant overlap among AE-associated psychosis, systemic autoimmune disorder-associated psychosis, and psychotic disorders associated with pathological processes involving inflammation and immune dysregulation has also prompted some authors to adopt the term “ autoimmune psychosis ” (AP). This term reflects that this psychosis subtype is mechanistically linked to complex neuroimmune and inflammatory signalling abnormalities that can be responsive to early immunomodulatory treatment. It also suggests that a subset of AP might represent an incomplete or “ forme fruste ” subtype of AE presenting with dominant or pure psychiatric symptoms mimicking primary psychiatric illnesses. Because data indicate that delayed diagnosis and treatment may lead to permanent sequelae, early recognition of AP utilizing neurodiagnostic workup (e.g., CSF analysis, neuroimaging, and EEG) and its early treatment with appropriate immunotherapy are paramount to a meaningful recovery. This eBook will provide an overview of the current knowledge and research areas from epidemiology, risk factors and diagnosis to the management of these conditions, in this rapidly emerging field, helping to bridge the gaps in knowledge that currently exist in the disciplines of Psychiatry, Neurology, and Neuroimmunology.

Cumulated Index Medicus Springer Science & Business Media

Thrombotic and bleeding disorders affect at least 10 million people in the US alone. As a result there has been much more interest and research into this field. The field of haematology is undergoing major advances in thrombosis research, including significant additions to recommended treatment protocols and guidelines. This new handbook will cover all aspects of the practical mangement of commonly encountered thrombotic and bleeding disorders, with emphasis on clinical diagnosis, treatment and day-to-day management. It will distil the most clinically relevant material from the literature for all those working in the field of haemostasis and thrombosis.