

Multivariable Calculus 2nd Edition Rogawski

Vector Calculus Using Mathematica Second Edition Geometric Modular Forms And Elliptic Curves (2nd Edition) Brain Injury Medicine, 2nd Edition Neuroanatomical Basis of Clinical Neurology, Second Edition Vector Calculus Using Mathematica Doing Mathematics: Convention, Subject, Calculation, Analogy (2nd Edition) Mouse Behavioral Testing Analytic Geometry and Linear Algebra for Physical Sciences Flat Earth is Baka The Dystonias Handbook of Animal Models in Neurological Disorders American Handbook of Psychiatry, Second Edition The Treatment of Epilepsy Clinical Psychopharmacology Neuroimmunology The 1-2-3 of Modular Forms Plum and Posner's Diagnosis and Treatment of Stupor and Coma The Prokaryotes Molecular Physiology and Metabolism of the Nervous System Migraine Steven Tan Haruzo Hida Nathan D. Zasler, MD Orhan E. Arslan Steven Tan Martin H Krieger Douglas Wahlsten Kartikeya Dutta Walant Schmidt H. A. Jinnah Colin R. Martin Simon Shorvon Paul F. Smith Bibiana Bielekova MD Jan Hendrik Bruinier Jerome B. Posner MD Stanley Falkow Gary A. Rosenberg David Dodick

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an introduction to vector calculus with the aid of mathematica computer algebra system to represent them and to

calculate with them the unique features of the book which set it apart from the existing textbooks are the large number of illustrative examples it is the author's opinion a novice in science or engineering needs to see a lot of examples in which mathematics is used to be able to speak the language all these examples and all illustrations can be replicated and used to learn and discover vector calculus in a new and exciting way reader can practice with the solutions and then modify them to solve the particular problems assigned this should move up problem solving skills and to use mathematica to visualize the results and to develop a deeper intuitive understanding usually visualization provides much more insight than the formulas themselves the second edition is an addition of the first two new chapters on line integrals green's theorem stokes's theorem and gauss's theorem have been added

this book provides a comprehensive account of the theory of moduli spaces of elliptic curves over integer rings and its application to modular forms the construction of galois representations which play a fundamental role in wiles proof of the shimura taniyama conjecture is given in addition the book presents an outline of the proof of diverse modularity results of two dimensional galois representations including that of wiles as well as some of the author's new results in that direction in this new second edition a detailed description of barsotti tate groups including formal lie groups is added to chapter 1 as an application a down to earth description of formal deformation theory of elliptic curves is incorporated at the end of chapter 2 in order to make the proof of regularity of the moduli of elliptic curve more conceptual and in chapter 4 though limited to ordinary cases newly incorporated are ribet's theorem of full image of modular p -adic galois representation and its generalization to big $\mathbb{Q}$ -adic galois representations under mild assumptions a new result of the author though some of the striking developments described above is out of the scope of this introductory book the author gives a taste of present day research in the area of number theory at the very end of the book giving a good account of modularity theory of abelian $\mathbb{Q}$ -varieties and $\mathbb{Q}$ -curves

this book is a clear and comprehensive guide to all aspects of the management of traumatic brain injury from early diagnosis and evaluation through the post acute period and rehabilitation an essential reference for physicians and other health care professionals who work with brain injured patients the book focuses on assessment and treatment of the wider variety of clinical problems these patients face and addresses many associated concerns such as epidemiology ethical issues legal issues and life care planning written by over 190 acknowledged leaders the text covers the full spectrum of the practice of brain injury medicine including principles of neural recovery neuroimaging

and neurodiagnostic testing prognosis and outcome acute care rehabilitation treatment of specific populations neurologic and other medical problems following injury cognitive and behavioral problems post traumatic pain disorders pharmacologic and alternative treatments and community reentry and productivity

bridging the gap between the peripheral and central nervous systems the second edition of neuroanatomical basis of clinical neurology enriches understanding of neurological conditions through a conceptual approach to neuronal circuitry the book retains the basic outline of contents from the first edition integrating structural organization with pertinent clinical disorders while reflecting the substantial growth and ever changing information in neuroscience after an introduction to the developmental and cellular aspects of the nervous system the book discusses in depth the morphology and internal organization of the central nervous system it examines the somatic and autonomic components of the peripheral nervous system emphasizing nerve entrapments and neuropathies the author describes various dysfunctions by demonstrating the neuronal interconnectivity between higher and lower autonomic centers and the mediation of visceral reflexes the second edition incorporates and highlights common and relevant clinical conditions topics include various forms of cortical dysfunctions such as seizures disconnection syndrome coma and dementia the role of prefrontal cortex in behavior and attention introducing the topic of autism up to date information on the auditory vestibular gustatory and limbic systems the neurochemistry of the limbic system memory and associated disorders and the structural and neuronal circuitry of the hippocampal gyrus structural organization and associated pathways of the extrapyramidal system demonstrating the neurochemical basis of movement disorders this new edition skillfully integrates over a decade of discovery in neuroscience since the publication of the first edition and introduces deepened insights into the neuronal synaptic connectivity and the mechanisms that underlie neurologic disorders the book remains an essential source of information for medical and allied health students practitioners of neurology and students of neuroscience

doing mathematics discusses some ways mathematicians and mathematical physicists do their work and the subject matters they uncover and fashion the conventions they adopt the subject areas they delimit what they can prove and calculate about the physical world and the analogies they discover and employ all depend on the mathematics what will work out and what won't the cases studied include the central limit theorem of statistics the sound of the shape of a drum the connections between algebra and topology and the series of rigorous proofs of the stability of matter the

many and varied solutions to the two dimensional ising model of ferromagnetism make sense as a whole when they are seen in an analogy developed by richard dedekind in the 1880s to algebraicize riemann s function theory by robert langlands program in number theory and representation theory and by the analogy between one dimensional quantum mechanics and two dimensional classical statistical mechanics in effect we begin to see an identity in a manifold presentation of profiles as the phenomenologists would say this second edition deepens the particular examples it describe the practical role of mathematical rigor it suggests what might be a mathematician s philosophy of mathematics and it shows how an ugly first proof or derivation embodies essential features only to be appreciated after many subsequent proofs natural scientists and mathematicians trade physical models and abstract objects remaking them to suit their needs discovering new roles for them as in the recent case of the painlevé transcendents the tracy widom distribution and toeplitz determinants and mathematics has provided the models and analogies the ordinary language for describing the everyday world the structure of cities or god s infinitude

mouse behavioral testing how to use mice in behavioral neuroscience provides detailed explanations of how to conduct an experiment on mouse behavior from the initial planning of the research design through every step of the process until the data analysis phase the book discusses the practical matters that need to be considered carefully when working with any species of animal such as how many animals need to be tested it describes the tests and techniques devised specifically for work with mice every step of the research process is illustrated with real situations encountered in previous studies all examples are based on real experiments and extensive details of several published experiments are provided the essential features of a behavioral test protocol are outlined and several complete protocols are provided methods to balance the order of tests and determine throughput are described then a completely balanced order of tests in a complex experiment is presented the book will be useful for those already familiar with the general principles of research but are new to the realm of behavioral testing of live mice it will also serve as a text for a formal course most likely at the graduate level a guide to running a behavioral testing lab including the many aspects of mouse research beyond the confines of the specific test diagrams and photographs are shown for many kinds of apparatus and test situations with sufficient details such as dimensions to enable building of replicas provides step by step instructions on planning and executing behavioral experiments in order to run them successfully

dive into the essential mathematical tools with analytic geometry and linear algebra for physical sciences this

comprehensive guide is tailored for undergraduate students pursuing degrees in the physical sciences including physics chemistry and engineering our book seamlessly integrates theoretical concepts with practical applications fostering a deep understanding of linear algebra and analytic geometry each chapter is designed to build from fundamental concepts to advanced topics reinforced by real world examples that highlight the relevance of these mathematical principles key features include a progressive learning approach numerous exercises ranging from basic to challenging and practical applications that develop problem solving skills this book not only supports academic success but also cultivates the analytical mindset crucial for future scientific endeavors aspiring scientists will find in this book a valuable companion that demystifies mathematical complexities making the journey through linear algebra and analytic geometry engaging and empowering

this book destroys the claims made by flat earth proponents this book looks at all the arguments and demonstrates that the earth is spherical

after initial success as piano player increasing technical difficulties due to an isolated and painless loss of control of the right middle finger prevented schumann from becoming a concert pianist

handbook of animal models in neurological disorders will better readers understanding of a large variety of animal models and their applicability in studying a number of neurological disorders featuring sections on brain injury stroke and neuroinflammation this volume discusses in detail the utility success and pitfalls of multiple models for each condition multiple disorders are covered ranging from neurodegenerative diseases like alzheimer s parkinson s and als to multiple sclerosis headache migraine and others with expert authors this book has applicability for anyone pursuing neuroscience or biomedical research working to better understand study and ultimately treat neurological dysfunction summarizes animal models for a variety of neurological conditions contains chapter abstracts key facts a dictionary and a summary covers both neurodegenerative diseases and other neurological conditions compares and contrasts different models and experimental systems includes sections on alzheimer s parkinson s brain injury migraine multiple sclerosis and more

highly commended at the british medical association book awards 2016 the treatment of epilepsy fourth edition is a comprehensive reference and clinical guide to the pharmacological medical and surgical options available in the

treatment of epilepsy the text is compiled by a group of internationally renowned editors and contributors and is now in full color and extensively illustrated the first two sections cover the background to and principles of treatment in different clinical situations section three comprises a series of systematic reviews of contemporary drug therapy devoting one chapter to each anti epileptic drug and covering all clinically relevant aspects section four focuses on the surgical options devoting individual chapters to each of the modalities of presurgical assessment and to each surgical operation or approach this 4th edition is extensively revised incorporating the many recent developments in therapy and comprises 81 chapters from world experts from 18 countries

this volume provides a concise introduction to the physiological biochemical and behavioral issues surrounding drug interventions in the treatment of psychological and neurological disorders it was written for the reader who does not have an extensive background in these subjects but would like an accurate current and succinct account of clinical psychopharmacology descriptions of the drugs used to treat psychological disorders such as anxiety depression and psychosis and neurological disorders such as chronic pain epilepsy and parkinson s disease constitute the major portions of this book there is also coverage of drugs of abuse as well as issues specific to the problems of prescribing and monitoring drug treatment in pediatric and geriatric populations to help avoid the possibility of brand name confusion pharmacological names for drugs are used a convenient table matches the generic names with lists of brand names available in the united states as such this volume will be a valuable guide for psychology and clinical psychology students as well as nurses and medical students

neuroimmunology the latest volume in the contemporary neurology series provides a practical clinical and scientific background on a diverse group of neurological disorders in this rapidly expanding field the clinical chapters cover epidemiology pathology pathogenesis and pathophysiology of the different diseases along with clinical presentation diagnostic testing differential diagnosis and treatment all are presented in an accessible practical format making this volume a valuable resource for physicians and other healthcare providers that will care for persons with neuroimmunologic diseases

this book grew out of three series of lectures given at the summer school on modular forms and their applications at the sophus lie conference center in nordfjordeid in june 2004 the first series treats the classical one variable theory of elliptic modular forms the second series presents the theory of hilbert modular forms in two variables and hilbert

modular surfaces the third series gives an introduction to siegel modular forms and discusses a conjecture by harder it also contains harder s original manuscript with the conjecture each part treats a number of beautiful applications

plum and posner s diagnosis and treatment of stupor and coma 5th edition is a major update of the classic work on diagnosing the cause of coma with the addition of completely new sections on treatment of comatose patients by dr jan claassen the director of the neuro icu at columbia new york presbyterian hospital the first chapter of the book provides an up to date review on the brain mechanisms that maintain a conscious state in humans and how lesions that damage these mechanisms cause loss of consciousness or coma the second chapter reviews the neurological examination of the comatose patient which provides the basis for determining whether the patient is suffering from a structural brain injury causing the coma or from a metabolic disorder of consciousness the third and fourth chapters review the pathophysiology of structural lesions causing coma and the specific disease states that result in coma chapter five is a comprehensive treatment of the many causes of metabolic coma chapter 6 review psychiatric causes of unresponsiveness and how to identify and treat them chapters 7 and 8 review the overall emergency treatment of comatose patients followed by the treatment of specific causes of coma chapter 9 examines the long term outcomes of coma including the minimally conscious state and the persistent vegetative state and how they can be distinguished and their implications for eventual useful recovery chapter 10 reviews the topic of brain death and the standards for examination of a patient that are required to make the determination of brain death the final chapter 11 is by j j fins a medical ethicist who was invited by the other authors to write an essay on the ethics of diagnosis and treatment of patients who by definition have no way to approve of or communicate about their wishes while providing detailed background for neurological and neurosurgical specialists the practical nature of the material in this book has found its greatest use among internists emergency medicine and intensive care specialists who deal with comatose patients frequently but who may not have had extensive neurological training

the revised third edition of the prokaryotes acclaimed as a classic reference in the field offers new and updated articles by experts from around the world on taxa of relevance to medicine ecology and industry entries combine phylogenetic and systematic data with insights into genetics physiology and application existing entries have been revised to incorporate rapid progress and technological innovation the new edition improves on the lucid presentation logical layout and abundance of illustrations that readers rely on adding color illustration throughout expanded to seven

volumes in its print form the new edition adds a new searchable online version

the molecular basis for the physiology of the brain has advanced enormously in the past twenty years with an influx of new information gleaned through technological developments in neuroimaging and molecular discoveries molecular physiology and metabolism of the nervous system authored by gary a rosenberg an authority on the physiology of brain fluids and metabolism combines the classic physiology that dates back to the beginning of the nineteenth century with the advances in molecular sciences providing a strong framework for understanding the diseases that are commonly treated by neurologists molecular physiology and metabolism of the nervous system focuses on the current neuropathology and implications of cerebrospinal fluid diseases and diseases of the blood brain barrier how the two affect stroke infection brain tumors and increased intracranial pressure the book discusses the effects of blood flow in stroke and dementia the disruption of the blood brain barrier in neuroinflammation and the dysfunction due to brain edema and increased intracranial pressure molecular physiology and metabolism of the nervous system is necessary reading for neurologists neuroscientists and residents in neurology neurosurgery and psychiatry giving them a strong grounding in physiology and metabolism that will aid them in diagnosis and treatment

migraine is a compilation of the most up to date research advances in the biology and clinical science of the third most common illness in medicine this text is a comprehensive guide to its treatment that includes established principles and recent findings the authors provide an up to date overview of the evidence and combine this with their experience and expertise to help practitioners make informed treatment decisions

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Introduction

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