

Tensor Calculus And Differential Geometry By Prasun Kumar Nayak

TEXTBOOK OF TENSOR CALCULUS AND DIFFERENTIAL GEOMETRY Remote Sensing
Applications in Environmental and Earth System Sciences Computational
Geometry Biomolecular Forms and Functions Sustainable Environmental Engineering and
Sciences Wireless Sensor Networks and Applications Advancements in Computer Vision
Applications in Intelligent Systems and Multimedia Technologies Differential Equations
and Applications User Interface Software Lane Marking/stripping to Improve Image
Processing Lane Departure Warning Systems The Journal of the Astronautical
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Trademark Office Lifetimes of Lunar Satellite Orbits Peterson's Graduate Programs in
Computer Science & Information Technology, Electrical & Computer Engineering, and
Energy & Power Engineering 2011 Abstracts of Papers Presented to the American
Mathematical Society Graph Theory Newsletter NAYAK, PRASUN KUMAR Nicolas R.
Dalezios Godfried T. Toussaint Manju Bansal Sunil Kumar Yingshu Li Sarfraz, Muhammad
A. Reza Aftabizadeh Len Bass Mohammed Abdul Hadi Hillel Nossek David A. Vallado Kurt W.
Meyer Peterson's American Mathematical Society
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primarily intended for the undergraduate and postgraduate students of mathematics this textbook covers both geometry and tensor in a single volume this book aims to provide a conceptual exposition of the fundamental results in the theory of tensors it also illustrates the applications of tensors to differential geometry mechanics and relativity organized in ten chapters it provides the origin and nature of the tensor along with the scope of the tensor calculus besides this it also discusses n dimensional riemannian space characteristic peculiarity of riemannian space intrinsic property of surfaces and properties and transformation of christoffel symbols besides the students of mathematics this book will be equally useful for the postgraduate students of physics key features contains 250 worked out examples includes more than 350 unsolved problems gives thorough foundation in tensors

remote sensing applications in environmental and earth system sciences is a contemporary multi disciplinary multi scaling updated and upgraded approach of applied remote sensing in the environment the book begins with an overview of remote sensing technology and then explains the types of data that can be used as well as the image processing and analysis methods that can be applied to each type of application through the use of case studies throughout includes a wide spectrum of environmental applications and issues explains methodological image analysis and interpretation procedures for conducting a variety of environmental analyses discusses the development of early warning systems covers monitoring of the environment as a whole atmosphere land and water explores the latest remote sensing systems in environmental applications this book is an excellent resource for anyone who is interested in remote sensing technologies and their use in earth systems natural resources and environmental science

machine intelligence and pattern recognition volume 2 computational geometry focuses on the operations processes methodologies and approaches involved in computational geometry including algorithms polygons convex hulls and bucketing techniques the selection first ponders on optimal parallel algorithms for selection sorting and computing convex hulls simple on line algorithms for convex polygons and geometric algorithms that use the furthest point voronoi diagram discussions focus on algorithms that use the furthest point voronoi diagram intersection of a convex polygon

this volume is primarily a compilation of contributed articles representing the impact and application of ramachandran s work on conformation analysis of biopolymers as well as recent advances in macromolecular structural biology involving diverse experimental and computational approaches this volume is being published to coincide with a conference on biomolecular forms and functions a celebration of 50 years of the ramachandran map being held at the indian institute of science bangalore in january 2013

this book presents the select proceedings of the international conference of sustainability in environmental engineering and science sees 2021 it presents the latest developments in

civil engineering that cover all aspects and challenges in civil engineering environmental engineering and environmental science various topics covered in this book include construction and structural mechanics building materials concrete steel and timber structures geotechnical engineering earthquake engineering and coastal engineering the volume will be useful for beginners researchers and professionals working in the areas of sustainable civil engineering and related fields

wireless sensor networks are being employed in a variety applications ranging from medical to military and from home to industry the principle aim of this book is to provide a reference tool for the increasing number of scientists who depend upon sensor networks in some way the book is organized into several sections each including chapters exploring a specific topic wireless sensor networks are attracting great attention and there are many research topics yet to be studied in this book the topics covered include network design and modelling network management data management security and applications the articles presented in the book are expository but of a scholarly nature including the appropriate history background a review of the state of the art thinking relative to the topic as well as a discussion of unsolved problems that are of special interest the target readers of this book include the researchers in computer science computer engineering and applied mathematics as well as students in these subjects specialists as well as general readers will find the articles stimulating and helpful book organization the book is organized into five sections section i introduces the design and modelling of sensor networks chapter 1 by vijay kulkarni mahatre and rosenberg presents a taxonomy of wireless sensor networks based on their application level objectives traffic characteristics and data delivery requirements popa and lewis in chapter 2 describe some algorithms for systematic exploration of unknown environments using a mobile wireless sensor network

two significant areas of study that are continually impacting various dimensions in computer science are computer vision and imaging these technologies are rapidly enhancing how information and data is being exchanged and opening numerous avenues of advancement within areas such as multimedia and intelligent systems the high level of applicability in computer vision and image processing requires significant research on the specific utilizations of these technologies advancements in computer vision applications in intelligent systems and multimedia technologies is an essential reference source that discusses innovative developments in computational imaging for solving real life issues and problems and addresses their execution in various disciplines featuring research on topics such as image modeling remote sensing and support vector machines this book is ideally designed for it specialists scientists researchers engineers developers practitioners industry professionals academicians and students seeking coverage on the latest developments and innovations in computer vision applications within the realm of multimedia systems

this accessible and authoritative reference explores the practical implications of new

trends in the development of user interface software developments such as groupware virtual reality and multimedia are likely to alter the way we all view software both as developers and users this book looks beyond the hype and tells what all the buzzwords mean for the working programmer and developer

offering a study of media and political violence this work provides case studies of instances of media coverage of political violence it suggests some approaches and trajectories for research it includes chapters that present analyses of media violence relationship from a variety of points in historical time

peterson s graduate programs in computer science information technology electrical computer engineering and energy power engineering contains a wealth of information on colleges and universities that offer graduate work these exciting fields the profiled institutions include those in the united states canada and abroad that are accredited by u s accrediting bodies up to date data collected through peterson s annual survey of graduate and professional institutions provides valuable information on degree offerings professional accreditation jointly offered degrees part time and evening weekend programs postbaccalaureate distance degrees faculty students degree requirements entrance requirements expenses financial support faculty research and unit head and application contact information readers will find helpful links to in depth descriptions that offer additional detailed information about a specific program or department faculty members and their research and much more in addition there are valuable articles on financial assistance the graduate admissions process advice for international and minority students and facts about accreditation with a current list of accrediting agencies

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