

# Tensor Calculus And Differential Geometry By Prasun Kumar Nayak

TEXTBOOK OF TENSOR CALCULUS AND DIFFERENTIAL GEOMETRY Introduction to Plithogenic Sociogram with preference representations by Plithogenic Number Collected Papers. Volume VII Optimization Techniques in Engineering Indopathy for Neuroprotection: Recent Advances Mathematical Reviews Who's Who in Science and Engineering 2008-2009 The West Bengal Civil List Judges of the Supreme Court and the High Courts as on ... A Handbook of Information Technology A Portrait of Sri Ramakrishna Indian National Bibliography Indian Listener A textbook of mechanics Parliamentary Debates The Indian National Bibliography D&B Principal International Businesses Marquis Who's Who Publications Index to All Books Bengali Film Directory The Management Accountant NAYAK, PRASUN KUMAR Nivetha Martin Florentin Smarandache Anita Khosla Surya Pratap Singh Who's Who Marquis India. Department of Justice Bubu Bhuyan Aksha  $\text{\AA}$ akumāra Sena B. S. Kesavan Prasun Kumar Nayak India. Parliament. Rajya Sabha B. S. Kesavan Marquis Who's Who, Inc Ansu Sur

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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 s 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

this paper introduces the concepts of plithogenic sociogram  $ps$  and plithogenic number  $pn$  where the former is the integration of plithogeny to the sociometric technique of sociogram and the latter is the generalization of fuzzy intuitionistic and neutrosophic numbers that shall be used in representations of preferences in group dynamics this research work outlines the conceptual development of these two newly proposed concepts and discusses the merits of the existing theory of similar kind with suitable substantiation

this seventh volume of collected papers includes 70 papers comprising 974 pages on theoretic and applied neutrosophics written between 2013 2021 by the author alone or in collaboration with the following 122 co authors from 22 countries mohamed abdel basset abdel nasser hussian c alexander mumtaz ali yaman akbulut amir abduallah amira s ashour assia bakali kousik bhattacharya kainat bibi r n boyd Ümit budak lulu cai cenap Özel chang su kim victor christianto chunlai du chunxin bo rituparna chutia cu nguyen giap dao the son vinayak devvrat arindam dey partha pratim dey fahad alsharari feng yongfei s ganesan shivam ghildiyal bibhas c giri masooma raza hashmi ahmed refaat hawas hoang viet long le hoang son hongbo wang hongnian yu mihaiela iliescu saeid jafari temitope gbolahan jaiyeola naeem jan r jeevitha jun ye anup khan madad khan salma khan ilanthenral kandasamy w b vasantha kandasamy darjan karabašević kifayat ullah kishore kumar p k sujit kumar de prasun kumar nayak malayalan lathamaheswari luong thi hong lan anam luqman luu quoc dat tahir mahmood hafsa m malik nivetha martin mai mohamed parimala mani mingcong deng mohammed a al shumrani mohammad hamidi mohamed talea kalyan mondal muhammad akram muhammad gulistan farshid mofidnakhaei muhammad shoaib muhammad riaz karthika mthusamy nabeela ishfaq deivanayagampillai nagarajan sumera naz nguyen dinh hoa nguyen tho thong nguyen xuan thao noor ul amin dragan pamučar gabrijela popović s krishna prabha surapati pramanik priya r qiaoyan li yaser saber said broumi saima anis saleem abduallah ganeshsree selvachandran abdukkadir sengür seyed ahmad edalatpanah shahbaz ali shahzaib ashraf shouzhen zeng shio gai quek shuangwu zhu shumaiza sidra

sayed sohail iqbal songtao shao sundas shahzadi dragiša stanujkić Željko stević udhayakumar ramalingam zunaira rashid hossein rashmanlou rajkumar verma luige vlădăreanu victor vlădăreanu desmond jun yi tey selçuk topal naveed yaqoob yanhui guo yee fei gan yingcang ma young bae jun yuping lai hafiz abdul wahab wei yang xiaohong zhang edmundas kazimieras zavadskas lemnaouar zedam

optimization techniques in engineering the book describes the basic components of an optimization problem along with the formulation of design problems as mathematical programming problems using an objective function that expresses the main aim of the model and how it is to be either minimized or maximized subsequently the concept of optimization and its relevance towards an optimal solution in engineering applications is explained this book aims to present some of the recent developments in the area of optimization theory methods and applications in engineering it focuses on the metaphor of the inspired system and how to configure and apply the various algorithms the book comprises 30 chapters and is organized into two parts part i soft computing and evolutionary based optimization and part ii decision science and simulation based optimization which contains application based chapters readers and users will find in the book an overview and brief background of optimization methods which are used very popularly in almost all applications of science engineering technology and mathematics an in depth treatment of contributions to optimal learning and optimizing engineering systems maps out the relations between optimization and other mathematical topics and disciplines a problem solving approach and a large number of illustrative examples leading to a step by step formulation and solving of optimization problems audience researchers industry professionals academicians and doctoral scholars in major domains of engineering production thermal electrical industrial materials design computer engineering and natural sciences the book is also suitable for researchers and postgraduate students in mathematics applied mathematics and industrial mathematics

degenerative nerve diseases are age related progressive and cause irreversible neurological loss that may lead too death chronic diseases like amyotrophic lateral sclerosis huntington s disease alzheimer s disease and parkinson s disease are associated with insoluble protein depositions and pose serious health challenges that may intensify in the coming decades current therapies only help to alleviate some of the physical or mental symptoms associated with neurodegenerative diseases although there is currently no remedy for slow disease progression in recent years attempts have been made to discover a mechanism for neurodegenerative diseases and prospective treatment that may help mitigate aging effects and prevent these diseases natural products have been a constant source of new approaches for the treatment of

neurodegenerative diseases in particular plant alkaloids and polyphenolic compounds indopathy for neuroprotection recent advances highlights herbal treatments that are preferred over conventional treatments in some regions book chapters focus on the effects of various medicinal plants that have shown promise in reversing pathological symptoms of neurodegenerative disease and highlight the neuroprotective role of medicinal herbal phytochemicals and their mechanism of action the book serves as a reference for pharmacology and herbal medicine scholars as well as healthcare workers interested in information about alternative and complementary therapies for neurological disorders

this handbook on information technology aims to bring together views of professors industry experts researchers and student learners from across all barriers to a common platform for the discussion and propagation of knowledge on the latest breakthroughs in the fields of information technology

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