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Beju Dwight E. Neuenschwander Uday Chand De Aristotle D. Michal Stanis□aw Go□□b

Wolfgang Hackbusch Wilhelm Fl gge Udo F. Meissner Barry Spain A. I. Borisenko

this textbook presents the foundations of tensor calculus and the elements of tensor analysis in addition the authors consider numerous applications of tensors to geometry mechanics and physics while developing tensor calculus the authors emphasize its relationship with linear algebra necessary notions and theorems of linear algebra are introduced and proved in connection with the construction of the apparatus of tensor calculus prior knowledge is not assumed for simplicity and to enable the reader to visualize concepts more clearly all exposition is conducted in three dimensional space the principal feature of the book is that the authors use mainly orthogonal tensors since such tensors are important in applications to physics and engineering with regard to applications the authors construct the general theory of second degree surfaces study the inertia tensor as well as the stress and strain tensors and consider some problems of crystallophysics the last chapter introduces the elements of tensor analysis all notions introduced in the book and also the obtained results are illustrated with numerous examples discussed in the text each section of the book presents problems a total over 300 problems are given examples and problems are intended to illustrate reinforce and deepen the presented material there are answers to most of the problems as well as hints and solutions to fundamental introduction of absolute differential calculus and for those interested in applications of tensor calculus to mathematical physics and engineering topics include spaces and tensors basic operations in riemannian space curvature of space more

this elementary introduction pays special attention to aspects of tensor calculus and relativity that students tend to find most difficult its use of relatively unsophisticated mathematics in the early chapters allows readers to develop their confidence within the framework of cartesian coordinates before undertaking the theory of tensors in curved spaces and its application to general relativity theory topics include the special principle of relativity and lorentz transformations orthogonal transformations and cartesian tensors special relativity mechanics and electrodynamics general tensor calculus and riemannian space and the general theory of relativity including a focus on black holes and gravitational waves the text concludes with a chapter offering a sound background in applying the principles of general relativity to cosmology numerous exercises advance the theoretical developments of the main text thus enhancing this volume s appeal to students of applied mathematics and physics at both undergraduate and postgraduate levels preface list of constants references bibliography

the aim of this book is to make the subject easier to understand this book provides clear concepts tools and techniques to master the subject tensor and can be used in many fields of research special applications are discussed in the book to remove any confusion and for absolute understanding of the subject in most books they emphasize only the theoretical development but not the methods of presentation to develop concepts without knowing how to change the dummy indices or the real indices the concept cannot be understood this book takes

it down a notch and simplifies the topic for easy comprehension features provides a clear

indication and understanding of the subject on how to change indices describes the original

evolution of symbols necessary for tensors offers a pictorial representation of referential

systems required for different kinds of tensors for physical problems presents the correlation

between critical concepts covers general operations and concepts

tensor calculus is a generalization of vector calculus and comes near of being a universal

language in physics physical laws must be independent of any particular coordinate system used

in describing them this requirement leads to tensor calculus the only prerequisites for reading

this book are a familiarity with calculus including vector calculus and linear algebra and some

knowledge of differential equations

the subject of tensor analysis deals with the problem of the formulation of the relation between

various entities in forms which remain invariant when we pass from one system of coordinates

to another the invariant form of equation is necessarily related to the possible system of

coordinates with reference to which the equation remains invariant the primary purpose of this

book is the study of the invariance form of equation relative to the totally of the rectangular co

ordinate system in the three dimensional euclidean space we start with the consideration of the

way the sets representing various entities are transformed when we pass from one system of

rectangular co ordinates to another a tensor may be a physical entity that can be described as a

tensor only with respect to the manner of its representation by means of multi sux sets

associated with different system of axes such that the sets associated with different system of co

ordinate obey the transformation law for tensor we have employed sux notation for tensors of

any order we could also employ single letter such a b to denote tensors

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the tensorial nature of a quantity permits us to formulate transformation rules for its components under a change of basis these rules are relatively simple and easily grasped by any engineering student familiar with matrix operators in linear algebra more complex problems arise when one considers the tensor fields that describe continuum bodies in this case general curvilinear coordinates become necessary the principal basis of a curvilinear system is constructed as a set of vectors tangent to the coordinate lines another basis called the dual basis is also constructed in a special manner the existence of these two bases is responsible for the mysterious covariant and contravariant terminology encountered in tensor discussions a tensor field is a tensor valued function of position in space the use of tensor fields allows us to present physical laws in a clear compact form a byproduct is a set of simple and clear rules for the representation of vector differential operators such as gradient divergence and laplacian in curvilinear coordinate systems this book is a clear concise and self contained treatment of tensors tensor fields and their applications the book contains practically all the material on tensors needed for applications it shows how this material is applied in mechanics covering the foundations of the linear theories of elasticity and elastic shells the main results are all presented in the first four chapters the remainder of the book shows how one can apply these results to differential geometry and the study of various types of objects in continuum mechanics such as elastic bodies plates and shells each chapter of this new edition is supplied with exercises and problems most with solutions hints or answers to help the reader progress an extended appendix serves as a handbook style summary of all important formulas contained in the book

this book is about tensor calculus the language and method used in presenting the ideas and techniques of tensor calculus make it very suitable for learning this subject by the beginners who have not been exposed previously to this elegant branch of mathematics considerable

Engineering efforts have been made to reduce the dependency on foreign texts by summarizing the main concepts needed to make the book self contained the book also contains a significant number of high quality graphic illustrations to aid the readers and students in their effort to visualize the ideas and understand the abstract concepts furthermore illustrative techniques such as coloring and highlighting key terms by boldface fonts have been employed the book also contains extensive sets of exercises which cover most of the given materials these exercises are designed to provide thorough revisions of the supplied materials the solutions of all these exercises are provided in a companion book the book is also furnished with a rather detailed index and populated with hyperlinks for the ebook users to facilitate referencing and connecting related subjects and ideas

this textbook presents the foundations of tensor calculus and the elements of tensor analysis in addition to considering numerous applications of tensors to geometry mechanics and physics while developing tensor calculus the authors emphasize its relationship with linear algebra necessary notions and theorems of linear algebra are introduced and proved in connection with the construction of the apparatus of tensor calculus prior knowledge is not assumed for simplicity and to enable the reader to visualize concepts more clearly all exposition is conducted in three dimensional space the principal feature of the book is that the authors use mainly orthogonal tensors since such tensors are important in applications to physics and engineering all notions introduced in the book and also the obtained results are illustrated with numerous examples discussed in the text each section of the book presents problems a total over 300 problems are given examples and problems are intended to illustrate reinforce textbook presents the foundations of tensor calculus and the elements of tensor analysis in addition to considering numerous applications of tensors to geometry mechanics and physics while

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using a clear step by step approach this book explains one of the more difficult yet crucial topics in physics understanding tensors is essential for any physics student dealing with phenomena where causes and effects have different directions a horizontal electric field producing vertical polarization in dielectrics an unbalanced car wheel wobbling in the vertical plane while spinning about a horizontal axis an electrostatic field on earth observed to be a magnetic field by orbiting astronauts these are some situations where physicists employ tensors but the true beauty of tensors lies in this fact when coordinates are transformed from one system to another tensors change according to the same rules as the coordinates tensors therefore allow for the convenience of coordinates while also transcending them this makes tensors the gold standard for expressing physical relationships in physics and geometry undergraduate physics majors are typically introduced to tensors in special case applications for example in a classical mechanics course they meet the inertia tensor and in electricity and magnetism they encounter the polarization tensor however this piecemeal approach can set students up for misconceptions when they have to learn about tensors in more advanced physics and mathematics studies e g while enrolled in a graduate level general relativity course or when

studying non euclidean geometries in a higher mathematics class dwight e neuenschwander s

tensor calculus for physics is a bottom up approach that emphasizes motivations before

providing definitions using a clear step by step approach the book strives to embed the logic of

tensors in contexts that demonstrate why that logic is worth pursuing it is an ideal companion

for courses such as mathematical methods of physics classical mechanics electricity and

magnetism and relativity

this work covers all the basic topics of tensor analysis in a lucid and clear language and is

aimed at both the undergraduate and postgraduate in civil mechanical and aerospace engineering

and in engineering physics

special numerical techniques are already needed to deal with nxn matrices for large n tensor

data are of size nxnx xn n d where n d exceeds the computer memory by far they appear for

problems of high spatial dimensions since standard methods fail a particular tensor calculus is

needed to treat such problems the monograph describes the methods how tensors can be

practically treated and how numerical operations can be performed applications are problems

from quantum chemistry approximation of multivariate functions solution of pde e g with

stochastic coefficients etc

through several centuries there has been a lively interaction between mathematics and

mechanics on the one side mechanics has used mathemat ics to formulate the basic laws and to

apply them to a host of problems that call for the quantitative prediction of the consequences of

some action on the other side the needs of mechanics have stimulated the development of

mathematical concepts differential calculus grew out of the needs of newtonian dynamics vector

algebra was developed as a means to describe force systems vector analysis to study velocity

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fields and force fields and the calcul s of variations has evolved from the energy principles of mechan ics in recent times the theory of tensors has attracted the attention of the mechanics people its very name indicates its origin in the theory of elasticity for a long time little use has been made of it in this area but in the last decade its usefulness in the mechanics of continuous media has been widely recognized while the undergraduate textbook literature in this country was becoming vectorized lagging almost half a century behind the development in europe books dealing with various aspects of continuum mechanics took to tensors like fish to water since many authors were not sure whether their readers were sufficiently familiar with tensors they either added a chapter on tensors or wrote a separate book on the subject

the intension of the book is to synthesize classical matrix and tensor methods with object oriented software techniques and efficient matrix methods for numerical algorithms the aim is to establish a coherent methodological framework through which the tensor based modeling of physical phenomena can be seamlessly applied in numerical algorithms without encountering methodological inconsistencies across different sub areas like indexed notation of tensors and two dimensional matrix algebra in symbolic notation the key to an effective solution lies in object oriented numerical structures and software design the author presents a coherent integration of tensor based theory through multi dimensional matrix calculus to object oriented numeric classes and methods for adequate simulations the index based tensor and matrix notation and the object oriented overloading of standard operators in c offers an innovative means to define comparable matrix operations for processing matrix objects of higher order typical applications demonstrate the advantages of this unique integration

concise readable text ranges from definition of vectors and discussion of algebraic operations on vectors to the concept of tensor and algebraic operations on tensors worked out problems and

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