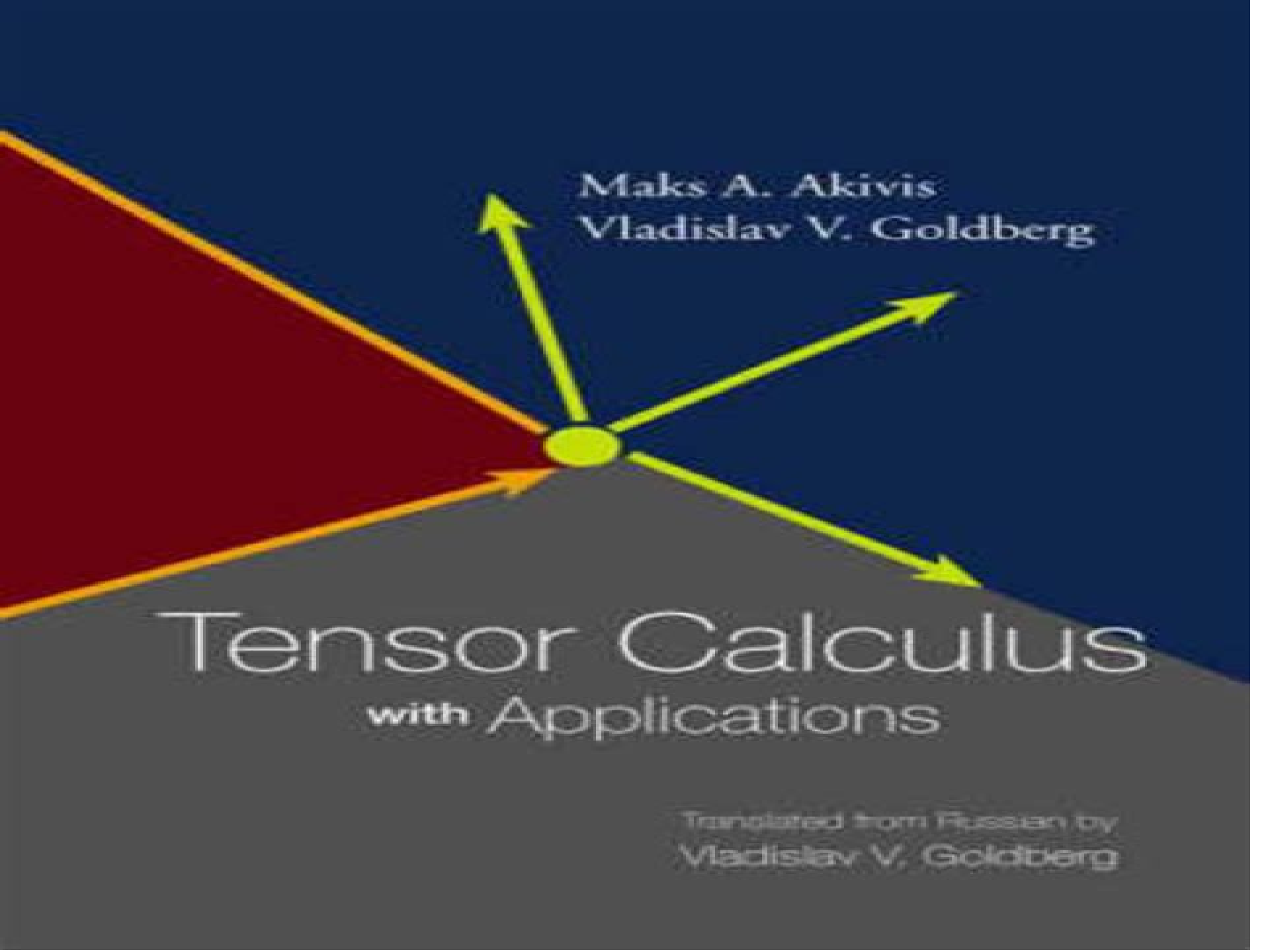




Maks A. Akivis
Vladislav V. Goldberg

Tensor Calculus

with Applications

Translated from Russian by
Vladislav V. Goldberg

Tensor Calculus With Applications

**Maks A?zиковich Akivis, Vladislav V.
Goldberg**



Tensor Calculus With Applications:

Tensor Calculus With Applications Vladislav V Goldberg, Maks A Akivis, 2003-09-29 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 selected problems at the end of the book

Tensor Calculus and Applications Bhaben Chandra Kalita, 2019-03-11 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 with Applications Maks A?zikovich Akivis, Vladislav V. Goldberg, 2003 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 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 p

Matrix and tensor calculus

Aristotle D. Michal, 1957 *Tensor Calculus and Applications* Bharat Chandra Kalita, 2019 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

Vector and Tensor Analysis with Applications A. I. Borisenko, I. E. Tarapov, 2012-08-28 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 solutions 1968 edition

Euclidean Tensor Calculus with Applications Iulian Beju, Eugen Soós, P. P. Teodorescu, 1983

Matrix and Tensor Calculus. With Applications to Mechanics, Elasticity, and Aeronautics, Etc

Aristotle D. MICHAL, 1947

Matrix and Tensor Calculus Clarence Henry Haring, 1947

TEXTBOOK OF TENSOR CALCULUS AND DIFFERENTIAL GEOMETRY AND THEIR APPLICATIONS Quddus Khan, 2020-12-29 This book is intended to serve as a Textbook for Undergraduate and Post graduate students of Mathematics It will be useful to the researchers working in the field of Differential geometry and its applications to general theory of relativity and other applied areas It will also be helpful in preparing for the competitive examinations like IAS IES NET PCS and UP Higher Education exams The text starts with a chapter on Preliminaries discussing basic concepts and results which would be taken for general later in the subsequent chapters of this book This is followed by the Study of the Tensors Algebra and its operations and types Christoffel's symbols and its properties the concept of covariant differentiation and its properties Riemann's symbols

and its properties and application of tensor in different areas in part I and the study of the Theory of Curves in Space Concepts of a Surface and Fundamental forms Envelopes and Developables Curvature of Surface and Lines of Curvature Fundamental Equations of Surface Theory Theory of Geodesics Differentiable Manifolds and Riemannian Manifold and Application of Differential Geometry in Part II KEY FEATURES Provides basic Concepts in an easy to understand style Presentation of the subject in a natural way Includes a large number of solved examples and illuminating illustrations Exercise questions at the end of the topic and at the end of each chapter Proof of the theorems are given in an easy to understand style Neat and clean figures are given at appropriate places Notes and remarks are given at appropriate places

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