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Tensor Analysis: Theory and Applications to Geometry and ...

Tensor Analysis Theory and Applications Hardcover - January 1, 1954 by I.S. Sokolnikoff (Author) 5.0 out of 5 stars 2 ratings. See all formats and editions Hide other formats and editions. Price New from Used from Hardcover "Please retry" \$45.39 — \$34.16: Hardcover, January 1, 1954 — —

Tensor Analysis Theory and Applications: Sokolnikoff, I.S ...

Tensor analysis, branch of mathematics concerned with relations or laws that remain valid regardless of the system of coordinates used to specify the quantities. Such relations are called covariant. Tensors were invented as an extension of vectors to formalize the manipulation of geometric entities arising in the study of mathematical manifolds.

Tensor analysis | mathematics | Britannica

Tensor analysis, theory and applications to geometry and mechanics of continua by Sokolnikoff, Ivan Stephen, 1901-

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Or in data cubes (tensors), with product-branchcustomer sales information? And more generally, how to summarize high-order data cubes (tensors)? How to incrementally update these patterns over time? Matrix decompositions, like principal component analysis (PCA) and variants, are invaluable tools for mining, dimensionality reduction, feature selection, rule identification in numerous settings like streaming data, text, graphs, social networks, and many more settings.

Incremental tensor analysis: Theory and applications: ACM ...

Tensor calculus has many real-life applications in physics, engineering and computer science including elasticity, continuum mechanics, electromagnetism (see mathematical descriptions of the electromagnetic field), general relativity (see mathematics of general relativity), quantum field theory and machine learning.

Tensor calculus - Wikipedia

"A broad and careful treatment that develops tensor theory without reference to applications and then applies it to Geometry, Mechanics, Relativity, Elasticity and Fluid Dynamics." Written by I. S. Sokolnikoff, Professor of Mathematics and the University of California, Los Angeles. See Oxfam website for delivery information Read more

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Ricci-Calculus - An Introduction to Tensor Analysis and ...

Tensors have their applications to Riemannian Geometry, Mechanics, Elasticity, Theory of Relativity, Electromagnetic Theory and many other disciplines of Science and Engineering. This book has been presented in such a clear and easy way that the students will have no difficulty in understanding it.

Tensors & their Applications

Large-scale datasets with natural tensor (multidimensional array) structure arise in a wide variety of applications including computer vision [37], neuroscience [10], scientific simulation [4 ...

Incremental tensor analysis: Theory and applications ...

APPLIED MATHEMATICS SERIES Edited by I. S. SOKOLNIKOFF TENSOR ANALYSIS THEORY AND APPLICATIONS APPLIED MATHEMATICS SERIES The Applied Mathematics Series is devoted to books dealing with mathematical theories underlying physical and biological sciences, and with advanced mathematical techniques needed for solving problems of these sciences.

Tensor Analysis: Theory and Applications to Geometry and ...

Sokolnikoff, coauthor of the fine text, Mathematics of Physics and Modern Engineering, here presents an accessible introduction to the more classical aspects of tensor analysis. One turns elsewhere for expositions which introduce differential forms (Lovelock and Rund, Bishop and Goldberg).

Amazon.com: Customer reviews: Tensor Analysis Theory and ...

This review is about the tensor analysis part (up to Ch. 5) of the 2nd ed., which is almost the same as the whole book of the 1st ed. In short, this book is the best introduction to tensor analysis for beginning students. The first hurdle most students confront when studying tensors is what covariance and contravariance are.

Tensor Analysis with Applications in Mechanics: Lebedev ...

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In applications, it is common to study situations in which a different tensor can occur at each point of an object; for example the stress within an object may vary from one location to another. This leads to the concept of a tensor field. In some areas, tensor fields are so ubiquitous that they are often simply called "tensors".

Tensor - Wikipedia

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Modern applications in medical imaging generate covariates of more complex form such as multidimensional arrays (tensors). Traditional statistical and computational methods are proving insufficient for analysis of these high-throughput data due to their ultrahigh dimensionality as well as complex structure.

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