Tensor Calculus, Second Edition



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Reviews

This kind of book is every little thing and made me searching ahead of time plus more. This is certainly for anyone who statte that there was not a well worth reading through. Its been developed in an remarkably straightforward way in fact it is simply following i finished reading this pdf in which really modified me, alter the way i really believe.

(Ivy Pollich)

TENSOR CALCULUS, SECOND EDITION



Narosa Publishing House, 2012. Softcover. Book Condition: New. 5th or later edition. Tensor Calculus while presenting the concepts and Techniques begins with a brief introduction and history of tensors, followed by the study of systems of different orders, Einstein summation convention, kronecker symbol leading to the concepts of tensor algebra and tensor calculus. The authors conclude with a stimulating study in Riemannian geometry. Key Features Self-contained Basic Concepts of Vectors and Matrices Explained Unique Presentation to Understand the Theory Illuminating Examples NEW TO THE SECOND EDITION: Several new problems alongwith a stimulating study in Riemannian geometry. Table of Contents Preface to the Second Edition / Preface to the First Edition / Introduction / Some Preliminaries: Introduction / Systems of Different Orders / Summation Convention / Kronecker Symbols / Some Results of Determinants / Differentiation of a Determinant / Linear Equations, Cramer?s Rule / Examples / Exercises / Tensor Algebra: Introduction / n-dimensional Space / Transformation of Coordinates in Sn / Invariants / Vectors / Tensors of Second Order / Mixed Tensors of Type (p, q) / Zero Tensor / Tensor Field / Algebra of Tensors / Equality of Two Tensors / Symmetric and Skew-symmetric Tensors / Outer Multiplication and Contraction / Inner Multiplication / Quotient Law of Tensors / Reciprocal Tensor of a Tensor / Relative Tensor / Cross Product or Vector Product of Two Vectors / Examples / Exercises / Tensor Calculus: Introduction / Riemannian Space / Christoffel Symbols and their Properties / Covariant Differentiation of Tensors / Riemann-Christoffel Curvature Tensor / Intrinsic Differentiation / Geodesics, Riemannian Geodesic Coordinates: Introduction / Calculus of Variations / Families of Curves / Euler?s Conditions / Geodesics / Riemannian and Geodesic Coordinates / History of Tensor Calculus / Bibliography / Index. Printed Pages: 176.



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