

# Concise Vector Analysis

C. J. Eliezer

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# Concise Vector Analysis Dover Mathematics

**Sylvia Weiser**

## Concise Vector Analysis Dover Mathematics:

Concise Vector Analysis C. J. Eliezer,2015-12-16 Originally published Oxford Pergamon Press Ltd 1963 **CONCISE VECTOR ANALYSIS** CHRISTIE J. ELIEZER,1963 Vector Analysis Louis Brand,2012-06-22 This text was designed as a short introductory course to give students the tools of vector algebra and calculus as well as a brief glimpse into the subjects manifold applications 1957 edition 86 figures Tensor and Vector Analysis C. E. Springer,2013-09-26 Assuming only a knowledge of basic calculus this text s elementary development of tensor theory focuses on concepts related to vector analysis The book also forms an introduction to metric differential geometry 1962 edition **Vector and Tensor Analysis** George E. Hay,1953-01-01 Remarkably comprehensive concise and clear Industrial Laboratories Considered as a condensed text in the classical manner the book can well be recommended Nature Here is a clear introduction to classic vector and tensor analysis for students of engineering and mathematical physics Chapters range from elementary operations and applications of geometry to application of vectors to mechanics partial differentiation integration and tensor analysis More than 200 problems are included throughout the book 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 A History of Vector Analysis Michael J. Crowe,1994-01-01 Prize winning study traces the rise of the vector concept from the discovery of complex numbers through the systems of hypercomplex numbers to the final acceptance around 1910 of the modern system of vector analysis **Concise Vector Analysis** C. J. Eliezer,2016-01-14 This concise introduction to the methods and techniques of vector analysis is suitable for college undergraduates in mathematics as well as students of physics and engineering Rich in exercises and examples the straightforward presentation focuses on physical ideas rather than mathematical rigor The treatment begins with a chapter on vectors and vector addition followed by a chapter on products of vector Two succeeding chapters on vector calculus cover a variety of topics including functions of a vector line surface and volume integrals the Laplacian operator and more The text concludes with a survey of standard applications including Poinsot s central axis Gauss s theorem gravitational potential Green s theorems and other subjects Vector Analysis Homer E. Newell,2006-08-11 When employed with skill and understanding vector analysis can be a practical and powerful tool This text develops the algebra and calculus of vectors in a manner useful to physicists and engineers Numerous exercises with answers not only provide practice in manipulation but also help establish students physical and geometric intuition in regard to vectors and vector concepts Part I the basic portion of the text consists of a thorough treatment of vector algebra and the vector calculus Part II presents the illustrative matter demonstrating applications to kinematics mechanics and electromagnetic theory The text stresses geometrical and physical aspects but it also casts the material in such a way that the logical structure of the subject is made plain Serious students of mathematics can rigorize the treatment

to their own satisfaction Although intended primarily as a college text this volume may be used as a reference in vector techniques or as a guide to self education An Introduction to Vectors Archibald Edward Coulson,1967 **Guide to the Literature of Engineering, Mathematics, and the Physical Sciences** Sylvia Weiser,1964 **Vector Analysis; a Text-book for the Use of Students of Mathematics and Physics** Josiah Willard Gibbs,1960 **Scientific and Technical Books in Print** ,1972 **Vector Calculus** P. R. Baxandall,Hans Liebeck,2008 This introductory text offers a rigorous comprehensive treatment Classical theorems of vector calculus are amply illustrated with figures worked examples physical applications and exercises with hints and answers 1986 edition *Vector Methods Applied to Differential Geometry, Mechanics, and Potential Theory* D. E. Rutherford,2012-04-27 This text offers both a clear view of the abstract theory as well as a concise survey of the theory s applications to various branches of pure and applied mathematics 1957 edition **Tensor Calculus** Barry Spain,2003-01-01 A compact exposition of the theory of tensors this text also illustrates the power of the tensor technique by its applications to differential geometry elasticity and relativity Explores tensor algebra the line element covariant differentiation geodesics and parallelism and curvature tensor Also covers Euclidean 3 dimensional differential geometry Cartesian tensors and elasticity and the theory of relativity 1960 edition **Using History to Teach Mathematics** Victor J. Katz,2000-09-21 This volume examines how the history of mathematics can find application in the teaching of mathematics itself **Paperbacks in Print** ,1969 Matrix Vector Analysis Richard L. Eisenman,2005-03-24 This text and reference applies matrix ideas to vector methods using physical ideas to illustrate and motivate mathematical concepts but employing a mathematical continuity of development rather than a physical approach Features approximately 50 problems at each chapter s end as well as 25 exercises Answers are given to selected questions 1963 edition Includes 121 figures **Introduction to Vector and Tensor Analysis** Robert C. Wrede,1972-06-01 Text for advanced undergraduate and graduate students covers the algebra differentiation and integration of vectors and the algebra and analysis of tensors with emphasis on transformation theory

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