Schaum Series Vector Analysis

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a textbook of vector analysis

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building on previous texts in the modular mathematics series in particular vectors in two or three dimensions and calculus and odes this book introduces the student to the concept of vector calculus it provides an overview of some of the key techniques as well as examining functions of more than one variable including partial differentiation and multiple integration undergraduates who already have a basic understanding of calculus and vectors will find this text provides tools with which to progress onto further studies scientists who need an overview of higher order differential equations will find it a useful introduction and basic reference

ideal for undergraduate and graduate students of science and engineering this book covers fundamental concepts of vectors and their applications in a single volume the first unit deals with basic formulation both conceptual and theoretical it discusses applications of algebraic operations levi civita notation and curvilinear coordinate systems like spherical polar and parabolic systems and structures and analytical geometry of curves and surfaces the second unit delves into the algebra of operators and their types and also explains the equivalence between the algebra of vector operators and the algebra of matrices formulation of eigen vectors and eigen values of a linear vector operator are elaborated using vector algebra the third unit deals with vector analysis discussing vector valued functions of a scalar variable and functions of vector argument both scalar valued and vector valued thus covering both the scalar vector fields and vector

integration

vector calculus is the fundamental language of mathematical physics it pro vides a way to describe physical quantities in three dimensional space and the way in which these quantities vary many topics in the physical sciences can be analysed mathematically using the techniques of vector calculus these top ics include fluid dynamics solid mechanics and electromagnetism all of which involve a description of vector and scalar quantities in three dimensions this book assumes no previous knowledge of vectors however it is assumed that the reader has a knowledge of basic calculus including differentiation integration and partial differentiation some knowledge of linear algebra is also required particularly the concepts of matrices and determinants the book is designed to be self contained so that it is suitable for a pro gramme of individual study each of the eight chapters introduces a new topic and to facilitate understanding of the material frequent reference is made to physical applications the physical nature of the subject is clarified with over sixty diagrams which provide an important aid to the comprehension of the new concepts following the introduction of each new topic worked examples are provided it is essential that these are studied carefully so that a full un derstanding is developed before moving ahead like much of mathematics each section of the book is built on the foundations laid in the earlier sections and chapters

with its important applications in a broad range of real world problems building a strong foundation in vector analysis is an essential part of the future engineer s education too often however the subject is treated only briefly in general calculus or engineering mathematics courses and those treatments tend to be focused on theory rather than practical applications applied vector analysis richly illustrates the application of vector calculus to physical problems the authors clearly explain the theory but focus on its application with an abundance of worked practical examples and exercises drawn from fluid mechanics electromagnetic theory and maxwell s wave and heat equations developed from class notes used over many years of teaching vector analysis this book is an ideal text for a one semester course for senior undergraduate or graduate engineering students with its bibliography and convenient appendix of vector formula applied vector analysis will also provide a valuable reference for graduate students and professional engineers

focusing on vector analysis this book aims to meet the professional needs of the engineer or scientist and to give the mathematician an understanding of the three dimensional versions of the theorems of higher geometry concepts are described geometrically and then examined analytically allowing the reader

to visualize a concept before it is formally defined

assuming only a knowledge of basic calculus this textpresents an elementary and gradual development of tensortheory from this treatment the traditional material ofcourses on vector analysis is deduced as a particular case inaddition the book forms an introduction to metric differentialgeometry reprint of the ronald press company new york 1962 edition

the aim of this book is to facilitate the use of stokes theorem in applications the text takes a differential geometric point of view and provides for the student a bridge between pure and applied mathematics by carefully building a formal rigorous development of the topic and following this through to concrete applications in two and three variables key topics include vectors and vector fields line integrals regular k surfaces flux of a vector field orientation of a surface differential forms stokes theorem and divergence theorem this book is intended for upper undergraduate students who have completed a standard introduction to differential and integral calculus for functions of several variables the book can also be useful to engineering and physics students who know how to handle the theorems of green stokes and gauss but would like to explore the topic further

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