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a textbook of vector analysis

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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

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

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

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

differential equations and vector calculus explores the mathematical foundations essential for physics and engineering covering ordinary differential equations partial differential equations and vector calculus topics like gradient divergence and curl it provides theoretical insights and practical problem solving techniques ideal for undergraduate students in science mathematics and engineering disciplines

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vector calculus is the fundamental language of mathematical physics it provides 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 topics 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 programme 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 understanding 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

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this text for undergraduates 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 uses of the potential function both scalar and vector are fully illustrated 1957 edition 86 figures

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