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a textbook of vector analysis

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this book play a major role as basic tools in differential geometry mechanics fluid mathematics the bulk of the book consists of five chapters on vector analysis and its applications each chapter is accompanied by a problem set the problem sets constitute an integral part of the book solving the problems will expose you to the geometric symbolic and numerical features of multivariable calculus contents algebra of vectors differentiation of vectors gradient divergence and curl vector integration application of vector integration

this textbook by respected authors helps students foster computational skills and intuitive understanding with a careful balance of theory applications historical development and optional materials

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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

this book gives a comprehensive and thorough introduction to ideas and major results of the theory of functions of several variables and of modern vector calculus in two and three dimensions clear and easy to follow writing style carefully crafted examples wide spectrum of applications and numerous illustrations diagrams and graphs invite students to use the textbook actively helping them to both enforce their understanding of the material and to brush up on necessary technical and computational skills particular attention has been given to the material that some students find challenging such as the chain rule implicit function theorem parametrizations or the change of variables theorem

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excerpt from vector analysis a text book for the use of students of mathematics and physics since the printing of a short pamphlet on the elements of vector analysis in the years 1881 84 never published but somewhat widely circulated among those who were known to be interested in the subject the desire has been expressed in more than one quarter that the substance of that trea tise perhaps in fuller form should be made accessible to the public as however the years passed without my finding the leisure to meet this want which seemed a real one i was very glad to have one of the hearers of my course on vector analysis in the year 1899 1900 undertake the preparation of a text book on the subject i have not desired that dr wilson should aim simply at the reproduction of my lectures but rather that he should use his own judgment in all respects for the production of a text book in which the subject should

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