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devoted to fully worked out examples this unique text constitutes a self contained introductory course in vector analysis topics include vector addition subtraction multiplication and applications very comprehensive the mathematical gazette 1931 edition

a handy book like this noted the mathematical gazette will fill a great want devoted to fully worked out examples this unique text constitutes a self contained introductory course in vector analysis for undergraduate and graduate students of applied mathematics opening chapters define vector addition and subtraction show how to resolve and determine the direction of two or more vectors and explain systems of coordinates vector equations of a plane and straight line relative velocity and acceleration and infinitely small vectors the following chapters deal with scalar and vector multiplication axial and polar vectors areas differentiation of vector functions gradient curl divergence and analytical properties of the position vector applications of vector analysis to dynamics and physics are the focus of the final chapter including such topics as moving rigid bodies energy of a moving rigid system central forces equipotential surfaces gauss s theorem and vector flow dover 2014 republication of introduction to vector analysis originally published by macmillan and company ltd london 1931 see every dover book in print at [doverpublications.com](http://doverpublications.com)

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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

a textbook of vector analysis

in this book the notion of a vector has been approached from two points of view geometric and algebraic the relationship between the two has also been established

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