



Problems and Worked Solutions in Vector Analysis (Dover Books on Mathematics)

By L.R. Shorter

Download now

Read Online 

Problems and Worked Solutions in Vector Analysis (Dover Books on Mathematics) By L.R. Shorter

"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.

 [Download Problems and Worked Solutions in Vector Analysis \(...pdf\)](#)

 [Read Online Problems and Worked Solutions in Vector Analysis ...pdf](#)

Problems and Worked Solutions in Vector Analysis (Dover Books on Mathematics)

By L.R. Shorter

Problems and Worked Solutions in Vector Analysis (Dover Books on Mathematics) By L.R. Shorter

"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.

Problems and Worked Solutions in Vector Analysis (Dover Books on Mathematics) By L.R. Shorter Bibliography

- Sales Rank: #1632099 in eBooks
- Published on: 2014-06-01
- Released on: 2014-06-01
- Format: Kindle eBook



[Download Problems and Worked Solutions in Vector Analysis \(...pdf](#)



[Read Online Problems and Worked Solutions in Vector Analysis ...pdf](#)

Download and Read Free Online Problems and Worked Solutions in Vector Analysis (Dover Books on Mathematics) By L.R. Shorter

Editorial Review

From the Back Cover

"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
www.doverpublications.com

Users Review

From reader reviews:

Arthur Bennett:

Reading a book to become new life style in this season; every people loves to learn a book. When you examine a book you can get a lots of benefit. When you read textbooks, you can improve your knowledge, because book has a lot of information onto it. The information that you will get depend on what kinds of book that you have read. If you need to get information about your study, you can read education books, but if you act like you want to entertain yourself you can read a fiction books, these us novel, comics, along with soon. The Problems and Worked Solutions in Vector Analysis (Dover Books on Mathematics) offer you a new experience in looking at a book.

Peter Wright:

Many people spending their time by playing outside with friends, fun activity with family or just watching TV all day long. You can have new activity to shell out your whole day by studying a book. Ugh, do you consider reading a book will surely hard because you have to take the book everywhere? It fine you can have the e-book, bringing everywhere you want in your Mobile phone. Like Problems and Worked Solutions in Vector Analysis (Dover Books on Mathematics) which is having the e-book version. So , try out this book? Let's notice.

Martin Hobson:

This Problems and Worked Solutions in Vector Analysis (Dover Books on Mathematics) is completely new way for you who has intense curiosity to look for some information because it relief your hunger details. Getting deeper you upon it getting knowledge more you know or you who still having tiny amount of digest in reading this Problems and Worked Solutions in Vector Analysis (Dover Books on Mathematics) can be the light food for you because the information inside this kind of book is easy to get simply by anyone. These books develop itself in the form that is reachable by anyone, sure I mean in the e-book web form. People who think that in guide form make them feel sleepy even dizzy this e-book is the answer. So there isn't any in reading a guide especially this one. You can find actually looking for. It should be here for a person. So , don't miss that! Just read this e-book sort for your better life as well as knowledge.

Tony Hogan:

A lot of book has printed but it takes a different approach. You can get it by online on social media. You can choose the best book for you, science, comic, novel, or whatever by searching from it. It is identified as of book Problems and Worked Solutions in Vector Analysis (Dover Books on Mathematics). You'll be able to your knowledge by it. Without departing the printed book, it could possibly add your knowledge and make an individual happier to read. It is most crucial that, you must aware about publication. It can bring you from one location to other place.

Download and Read Online Problems and Worked Solutions in Vector Analysis (Dover Books on Mathematics) By L.R. Shorter #4PLDKFHT7ZO

Read Problems and Worked Solutions in Vector Analysis (Dover Books on Mathematics) By L.R. Shorter for online ebook

Problems and Worked Solutions in Vector Analysis (Dover Books on Mathematics) By L.R. Shorter Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Problems and Worked Solutions in Vector Analysis (Dover Books on Mathematics) By L.R. Shorter books to read online.

Online Problems and Worked Solutions in Vector Analysis (Dover Books on Mathematics) By L.R. Shorter ebook PDF download

Problems and Worked Solutions in Vector Analysis (Dover Books on Mathematics) By L.R. Shorter Doc

Problems and Worked Solutions in Vector Analysis (Dover Books on Mathematics) By L.R. Shorter MobiPocket

Problems and Worked Solutions in Vector Analysis (Dover Books on Mathematics) By L.R. Shorter EPub