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Schaum's Outline of Calculus, Seventh Edition Schaum's Outline Series
There is a large gap between engineering courses in tensor algebra on one hand, and the treatment of linear transformations within classical linear algebra on the other. This book addresses primarily engineering students with some initial knowledge of matrix algebra. Thereby, mathematical formalism is applied as far as it is absolutely necessary. Numerous exercises provided in the book are accompanied by solutions enabling autonomous study. The last chapters deal with modern developments in the theory of isotropic and anisotropic tensor functions and their applications to

continuum mechanics and might therefore be of high interest for PhD-students and scientists working in this area.

Tensor Algebra and Tensor Analysis for Engineers

McGraw Hill Professional

Designed as a supplement to all current standard textbooks or as a textbook for a formal course in the mathematical methods of engineering and science.

Schaum's Outline of Tensor Calculus World Scientific Publishing Company

Tough Test Questions? Missed Lectures? Not Enough Time? Fortunately, there's Schaum's. This all-in-one-package includes more than 350 fully solved problems, examples, and practice exercises to sharpen your problem-solving skills. Plus, you will have access to 20 detailed videos featuring instructors who explain the most commonly tested problems--it's just like having your own virtual tutor!

You'll find everything you need to build confidence, skills, and knowledge for the highest score possible. More than 40 million students have trusted Schaum's to help them succeed in the classroom and on exams. Schaum's is the key to faster learning and higher grades in every subject. Each Outline presents all the essential course information in an easy-to-follow, topic-by-topic format. You also get hundreds of examples, solved problems, and practice exercises to test your skills. This Schaum's Outline gives you 351 fully solved problems Exercises to help you test your mastery of electromagnetics Support for all the major textbooks for electromagnetic courses Fully compatible with your classroom text, Schaum's highlights all the important facts you need to know. Use Schaum's to shorten your study time--and get your best test scores! Schaum's Outlines--Problem Solved.

Schaum's Outline of Theory and Problems of Vector Analysis and an Introduction to Tensor Analysis McGraw Hill Professional

This lucid introduction for undergraduates and graduates proves fundamental for practitioners of theoretical physics and certain areas of engineering, like aerodynamics and fluid mechanics, and extremely valuable for mathematicians. This study guide teaches all the basics and effective problem-solving skills too.

Schaum's Outline of Electromagnetics McGraw Hill Professional

Tough Test Questions? Missed Lectures? Not Enough Time? Fortunately for you, there's Schaum's. More than 40 million students have trusted Schaum's Outlines to help them succeed in the classroom and on exams. Schaum's is the key to faster learning and higher grades in every subject.

Each Outline presents all the essential course information in an easy-to-follow, topic-by-topic format. You also get hundreds of examples, solved problems, and practice exercises to test your skills. This Schaum's Outline gives you: Practice problems with full explanations that reinforce knowledge Coverage of the most up-to-date developments in your course field In-depth review of practices and applications Fully compatible with your classroom text, Schaum's highlights all the important facts you need to know. Use Schaum's to shorten your study time--and get your best test scores! Schaum's Outlines-Problem Solved.

Schaum's Outline of Theory and Problems of Vector Analysis McGraw Hill Professional

Concise, readable text ranges from definition of vectors and discussion of algebraic operations on vectors to the concept of tensor and algebraic operations on tensors. Worked-out problems and solutions. 1968 edition.

Schaum's Outline of Differential Equations, 4th Edition McGraw Hill Professional

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.

Schaum's Outline of Linear Algebra Fourth Edition McGraw Hill Professional

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.

An Introduction to Tensor Analysis Courier Corporation

Tough Test Questions? Missed Lectures? Not Enough Time? Fortunately, there's Schaum's. This all-in-one-package includes more than 550 fully solved problems, examples, and practice exercises to sharpen your problem-solving skills. Plus, you will have access to 30 detailed videos featuring Math instructors who explain how to solve the most commonly tested problems--it's just like having your own virtual tutor! You'll find

everything you need to build confidence, skills, and knowledge for the highest score possible. More than 40 million students have trusted Schaum's to help them succeed in the classroom and on exams. Schaum's is the key to faster learning and higher grades in every subject. Each Outline presents all the essential course information in an easy-to-follow, topic-by-topic format. Helpful tables and illustrations increase your understanding of the subject at hand. This Schaum's Outline gives you 563 fully solved problems Concise explanation of all course concepts Covers first-order, second-order, and nth-order equations Fully compatible with your classroom text, Schaum's highlights all the important facts you need to know. Use Schaum's to shorten your study time--and get your best test scores! Schaum's Outlines--Problem Solved.

Schaum's Outline of Probability and Statistics, 4th Edition Springer
Confusing Textbooks? Missed Lectures? Not Enough Time?
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Schaum's Outline of Differential Geometry McGraw Hill Professional

The guide to vector analysis that helps students study faster, learn better, and get top grades More than 40 million students have trusted Schaum's to help them study faster, learn better, and get top grades. Now Schaum's is better than ever-with a new look, a new format with hundreds of practice problems, and completely updated information to conform to the latest developments in every field of study. Fully compatible with your classroom text, Schaum's highlights all the important facts you need to know. Use Schaum's to shorten your study time-and get your best test scores! Schaum's Outlines-Problem Solved.

Schaum's Outline of Mathematical Methods for Business and Economics McGraw Hill Professional

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Advanced Calculus McGraw Hill Professional

An authorised reissue of the long out of print classic textbook, Advanced Calculus by the late Dr Lynn Loomis and Dr Shlomo Sternberg both of Harvard University has been a revered but hard to find textbook for the advanced calculus course for decades. This book is based on an honors course in advanced calculus that the authors gave in the 1960's. The foundational material, presented in the unstarred sections of Chapters 1 through 11, was normally

covered, but different applications of this basic material were stressed from year to year, and the book therefore contains more material than was covered in any one year. It can accordingly be used (with omissions) as a text for a year's course in advanced calculus, or as a text for a three-semester introduction to analysis. The prerequisites are a good grounding in the calculus of one variable from a mathematically rigorous point of view, together with some acquaintance with linear algebra. The reader should be familiar with limit and continuity type arguments and have a certain amount of mathematical sophistication. As possible introductory texts, we mention Differential and Integral Calculus by R Courant, Calculus by T Apostol, Calculus by M Spivak, and Pure Mathematics by G Hardy. The reader should also have some experience with partial derivatives. In overall plan the book divides roughly into a first half which develops the calculus (principally the differential calculus) in the setting of normed vector spaces, and a second half which deals with the calculus of differentiable manifolds.

Schaum's Outline Series Fo Theory and Problems of Vector Analysis and on Introduction to Tesnor Analysis Tata McGraw-Hill Education

Revision of: Schaum's outline of theory and problems of linear algebra / Seymour Lipschutz. 3rd ed. 2002.

Schaum's 3,000 Solved Problems in Calculus McGraw Hill Professional The ideal review for your tensor calculus course More than 40 million students have trusted Schaum ' s Outlines for their expert knowledge and helpful solved problems. Written by renowned experts in their respective fields, Schaum ' s Outlines cover everything from math to science, nursing to language. The main feature for all these books is the solved problems. Step-by-step, authors walk readers through coming up with solutions to exercises in their topic of choice. 300 solved problems

Coverage of all course fundamentals Effective problem-solving techniques
Complements or supplements the major logic textbooks Supports all the
major textbooks for tensor calculus courses

Vector Calculus McGraw Hill Professional

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Schaum's Outline of Linear Algebra, Sixth Edition McGraw Hill Professional

For senior undergraduates or first year graduate students.

Vector and Tensor Analysis with Applications Springer Science & Business Media

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Calculus III McGraw Hill Professional

Basic definitions, explorations of principles and theorems, and solved problems provide a theoretical framework and computational tool for understanding linear algebra

Schaum's Outline of Theory and Problems of Numerical Analysis McGraw Hill Professional

Study smarter and stay on top of your calculus course with the bestselling Schaum ' s Outline—now with the NEW Schaum ' s app and website!

Schaum ' s Outline of Calculus, Seventh Edition is the go-to study guide for hundreds of thousands of high school and college students enrolled in calculus courses—including Calculus, Calculus II, Calculus III, AP Calculus and Precalculus. With an outline format that facilitates quick and easy review, Schaum ' s Outline of Calculus, Seventh Edition helps you understand basic concepts and get the extra practice you need to excel in these courses. Chapters include Linear Coordinate Systems, Functions, Limits, Rules for Differentiating Functions, Law of the Mean, Inverse Trigonometric Functions, The Definite Integral, Space Vectors, Directional Derivatives, and much, much more.

Features: NEW to this edition: the new Schaum ' s app and website! 1,105 problems solved step by step 30 problem-solving videos online Outline format supplies a concise guide to the standard college course in calculus Clear, concise explanations covers all course fundamentals Hundreds of additional practice problems Supports the major leading textbooks in calculus Appropriate for the following courses: Calculus I, Calculus II, Calculus III, AP Calculus, Precalculus