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The fundamental mathematical tools needed to understand machine learning include linear algebra, analytic geometry, matrix decompositions, vector calculus, optimization, probability and statistics. These topics are traditionally taught in disparate courses, making it

hard for data science or computer science students, or professionals, to efficiently learn the mathematics. This self-contained textbook bridges the gap between mathematical and machine learning texts, introducing the mathematical concepts with a minimum of prerequisites. It uses these concepts to derive four central machine learning methods: linear regression, principal component analysis, Gaussian mixture models and support vector machines. For students and others with a mathematical background, these derivations provide a starting point to machine learning texts. For those learning the mathematics for the first time, the methods help build intuition and practical experience with applying mathematical concepts. Every chapter includes worked examples and exercises to test understanding. Programming tutorials are offered on the book's web site.

Schaum's Outline of College Physics, 11th Edition McGraw Hill Professional

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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.

*A Textbook of Vector Analysis* McGraw Hill Professional  
Tough Test Questions? Missed Lectures? Not Enough Time? Fortunately, there's Schaum's. This all-in-one-package includes 738 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. You also get hundreds of examples, solved problems, and practice exercises to test your skills. This Schaum's Outline gives you 738 fully solved problems The latest course scope and sequences, with complete coverage of limits, continuity, and derivatives Succinct explanation of all precalculus concepts 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 Outline of Theory and Problems of Vector Analysis and an Introduction to Tensor Analysis** McGraw Hill Professional

'Vector Calculus' helps students foster computational skills and intuitive understanding with a careful balance of theory, applications, and optional materials. This new edition offers revised coverage in several areas as well as a large number of new exercises and expansion of historical notes.

**Vector and Tensor Analysis with Applications** McGraw Hill Professional

Covering the theory of computation, information and communications, the physical aspects of computation, and the physical limits of computers, this

text is based on the notes taken by one of its editors, Tony Hey, on a lecture course on computation given by

**Advanced Calculus (Revised Edition)** 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 Mathematical Handbook of Formulas and Tables, 4th Edition McGraw Hill Professional

*A Textbook of Vector Analysis* Schaum's Outline of Fluid Mechanics 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 Vector Analysis, 2ed* McGraw-Hill Companies

Tough Test Questions? Missed Lectures? Not Enough Time? Fortunately for you, there's Schaum's. 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 Hundreds of examples with explanations of quantum mechanics concepts Exercises to help you test your mastery of quantum mechanics Complete review of all course fundamentals 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! Topics include: Mathematical Background; Schrodinger Equation and

Applications; Foundations of Quantum Mechanics; Harmonic Oscillator; Angular Momentum; Spin; Hydrogen-Like Atoms; Particle Motion in an Electromagnetic Field; Solution Methods in Quantum Mechanics; Solutions Methods in Quantum Mechanics; Numerical Methods in Quantum Mechanics; Identical Particles; Addition of Angular Momenta; Scattering Theory; and Semiclassical Treatment of Radiation  
Schaum's Outlines--Problem Solved.

**Schaum's Outline of Quantum Mechanics, Second Edition**

Cambridge University Press  
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  
**Lectures On Computation**  
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 of Theory and Problems of Probability* McGraw Hill Professional  
For use as supplement or as textbook.  
*Mathematics for Machine Learning* McGraw Hill Professional  
This book covers the following areas: vector analysis; electrostatics; magnetostatics; Maxwell's equation; plane waves; transmission lines; waveguides; cavity resonator; and antenna.  
*Schaum's Outline of Engineering Mechanics Dynamics, Seventh Edition* Tata McGraw-Hill Education  
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.

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*Schaum's Outline of Theory and  
Problems of Advanced Mathematics  
for Engineers and Scientists*  
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More than 40 million books sold in  
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