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### SCHAUM'S OUTLINE OF THEORY AND PROBLEMS OF VECTOR ANALYSIS AND AN INTRODUCTION TO TENSOR ANALYSIS

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**McGraw Hill Professional** This book introduces students to vector analysis, a concise way of presenting certain kinds of equations and a natural aid for forming mental pictures of physical and geometrical ideas. Students of the physical sciences and of physics, mechanics, electromagnetic theory, aerodynamics and a number of other fields will find this a rewarding and practical treatment of vector analysis. Key points are made memorable with the hundreds of problems with step-by-step solutions, and many review questions with answers.

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### SCHAUM'S OUTLINE OF OPERATIONS RESEARCH

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**McGraw Hill Professional** More than 35,000 copies sold in its first edition. Used by students worldwide and translated into 5 languages. Over 267,000 students enrolled. New material in 7 areas, such as forecasting and inventory control. Supplements any textbook in operations research, industrial engineering or quantitative analysis.

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### SCHAUM'S OUTLINE OF VECTOR ANALYSIS, 2ED

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**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.

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### SCHAUM'S OUTLINE OF FLUID MECHANICS

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### SCHAUM'S OUTLINE OF DIFFERENTIAL EQUATIONS, 4TH EDITION

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**McGraw Hill Professional** 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 PROBABILITY AND STATISTICS

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Schaum's Outline of Probability and Statistics has become a vital resource for the more than 977,000 college students who enroll in related probability and statistics courses each year. Its big-picture, calculus-based approach makes it an especially authoritative reference for engineering and science majors. Now thoroughly updated, this second edition includes vital new coverage of order statistics, best critical regions, likelihood ratio tests, and other key topics.

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### SCHAUM'S OUTLINE OF COLLEGE PHYSICS, 11TH EDITION

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**McGraw Hill Professional** The ideal review for your college physics 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. Outline format facilitates quick and easy review of college physics 984 solved problems Hundreds more practice problems with answers Exercises to help you test your mastery of college physics Appropriate for the following courses: College Physics, Introduction to Physics, Physics I and II, Noncalculus Physics, Advanced Placement H.S. Physics

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### SOLVED PROBLEMS IN CLASSICAL MECHANICS

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### ANALYTICAL AND NUMERICAL SOLUTIONS WITH COMMENTS

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**Oxford University Press** simulated motion on a computer screen, and to study the effects of changing parameters. --

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### SCHAUM'S OUTLINE OF MACHINE DESIGN

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**McGraw Hill Professional** If you want top grades and excellent understanding of machine design, this powerful study tool is the best tutor you can have! It takes you step-by-step through the subject and gives you accompanying related problems with fully worked solutions. You also get hundreds of additional problems to solve on your own, working at your own speed. This superb Outline clearly presents every aspect of machine design. Famous for their clarity, wealth of illustrations and examples, and lack of dreary minutia, Schaum's Outlines have sold more than 30 million copies worldwide. Compatible with any textbook, this Outline is also perfect for self-study. For better grades in courses covering machine design--you can't do better than this Schaum's Outline!

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### INTRODUCTION TO REAL ANALYSIS

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**Prentice Hall** Using an extremely clear and informal approach, this book introduces readers to a rigorous understanding of mathematical analysis and presents challenging math concepts as clearly as possible. The real number system. Differential calculus of functions of one variable. Riemann integral functions of one variable. Integral calculus of real-valued functions. Metric Spaces. For those who want to gain an understanding of mathematical analysis and challenging mathematical concepts.

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### AN INTRODUCTION TO NEURAL NETWORKS

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**CRC Press** Though mathematical ideas underpin the study of neural networks, the author presents the fundamentals without the full mathematical apparatus. All aspects of the field are tackled, including artificial neurons as models of their real counterparts; the geometry of network action in pattern space; gradient descent methods, including back-propagation; associative memory and Hopfield nets; and self-organization and feature maps. The traditionally difficult topic of adaptive resonance theory is clarified within a hierarchical description of its operation. The book also includes several real-world examples to provide a concrete focus. This should enhance its appeal to those involved in the design, construction and management of networks in commercial environments and who wish to improve their understanding of network simulator packages. As a comprehensive and highly accessible introduction to one of the most important topics in cognitive and computer science, this volume should interest a wide range of readers, both students and professionals, in cognitive science, psychology, computer science and electrical engineering.

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### SCHAUM'S OUTLINE OF THEORY AND PROBLEMS OF PROBABILITY

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For an introductory course in probability with high school algebra the only prerequisite.

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## SCHAUMS OUTLINE OF ADVANCED CALCULUS, SECOND EDITION

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**McGraw Hill Professional** Confusing Textbooks? Missed Lectures? Not Enough Time? Fortunately for you, there's Schaum's Outlines. 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 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.

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## SCHAUM'S OUTLINE OF FOURIER ANALYSIS WITH APPLICATIONS TO BOUNDARY VALUE PROBLEMS

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**McGraw Hill Professional** For use as supplement or as textbook.

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## SCHAUM'S OUTLINE OF QUANTUM MECHANICS, SECOND EDITION

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**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 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.

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## UNDERSTANDING MACHINE LEARNING

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### FROM THEORY TO ALGORITHMS

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**Cambridge University Press** Introduces machine learning and its algorithmic paradigms, explaining the principles behind automated learning approaches and the considerations underlying their usage.

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## AN INTRODUCTION TO TENSOR ANALYSIS

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The primary purpose of this book is the study of the invariance form of equation relative to the totality of the rectangular co-ordinate system in the three-dimensional Euclidean space.

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## SCHAUM'S OUTLINE OF ELECTROMAGNETICS, 4TH EDITION

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**McGraw Hill Professional** 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.

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## COMPLEX ANALYSIS WITH APPLICATIONS

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**Springer** This textbook is intended for a one semester course in complex analysis for upper level undergraduates in mathematics. Applications, primary motivations for this text, are presented hand-in-hand with theory enabling this text to serve well in courses for students in engineering or applied sciences. The overall aim in designing this text is to accommodate students of different mathematical backgrounds and to achieve a balance between presentations of rigorous mathematical proofs and applications. The text is adapted to enable maximum flexibility to instructors and to students who may also choose to progress through the material outside of coursework. Detailed examples may be covered in one course, giving the instructor the option to choose those that are best suited for discussion. Examples showcase a variety of problems with completely worked out solutions, assisting students in working through the exercises. The numerous exercises vary in difficulty from simple applications of formulas to more advanced project-type problems. Detailed hints accompany the more challenging problems. Multi-part exercises may be assigned to individual students, to groups as projects, or serve as further illustrations for the instructor. Widely used graphics clarify both concrete and abstract concepts, helping students visualize the proofs of many results. Freely accessible solutions to every-other-odd exercise are posted to the book's Springer website. Additional solutions for instructors' use may be obtained by contacting the authors directly.

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## INTRODUCTION TO TENSOR ANALYSIS AND THE CALCULUS OF MOVING SURFACES

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**Springer Science & Business Media** This textbook is distinguished from other texts on the subject by the depth of the presentation and the discussion of the calculus of moving surfaces, which is an extension of tensor calculus to deforming manifolds. Designed for advanced undergraduate and graduate students, this text invites its audience to take a fresh look at previously learned material through the prism of tensor calculus. Once the framework is mastered, the student is introduced to new material which includes differential geometry on manifolds, shape optimization, boundary perturbation and dynamic fluid film equations. The language of tensors, originally championed by Einstein, is as fundamental as the languages of calculus and linear algebra and is one that every technical scientist ought to speak. The tensor technique, invented at the turn of the 20th century, is now considered classical. Yet, as the author shows, it remains remarkably vital and relevant. The author's skilled lecturing capabilities are evident by the inclusion of insightful examples and a plethora of exercises. A great deal of material is devoted to the geometric fundamentals, the mechanics of change of variables, the proper use of the tensor notation and the discussion of the interplay between algebra and geometry. The early chapters have many words and few equations. The definition of a tensor comes only in Chapter 6 - when the reader is ready for it. While this text maintains a consistent level of rigor, it takes great care to avoid formalizing the subject. The last part of the textbook is devoted to the Calculus of Moving Surfaces. It is the first textbook exposition of this important technique and is one of the gems of this text. A number of exciting applications of the calculus are presented including shape optimization, boundary perturbation of boundary value problems and dynamic fluid film equations developed by the author in recent years. Furthermore, the moving surfaces framework is used to offer new derivations of classical results such as the geodesic equation and the celebrated Gauss-Bonnet theorem.

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## SCHAUM'S OUTLINE OF THEORY AND PROBLEMS OF BASIC CIRCUIT ANALYSIS

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**McGraw-Hill Companies** Confusing Textbooks? Missed Lectures? Not Enough Time? . . . Fortunately for you, there's Schaum's Outlines. 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. . . 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. . . .

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## SCHAUMS OUTLINE OF ENGINEERING ECONOMICS

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**McGraw Hill Professional** Reviews basic economic concepts, including compound interest, equivalence, present worth, rate of return, depreciation, and cost-benefit ratios

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## PARTIAL DIFFERENTIAL EQUATIONS

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### AN INTRODUCTION

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**John Wiley & Sons** Partial Differential Equations presents a balanced and comprehensive introduction to the concepts and techniques required to solve problems containing unknown functions of multiple variables. While focusing on the three most classical partial differential equations (PDEs)—the wave, heat, and Laplace equations—this detailed text also presents a broad practical perspective that merges mathematical concepts with real-world application in diverse areas including molecular structure, photon and electron interactions, radiation of electromagnetic waves, vibrations of a solid, and many more. Rigorous pedagogical tools aid in student comprehension; advanced topics are introduced frequently, with minimal technical jargon, and a wealth of exercises reinforce vital skills and invite additional self-study. Topics are presented in a logical progression, with major concepts such as wave propagation, heat and diffusion, electrostatics, and quantum mechanics placed in contexts familiar to students of various fields in science and engineering. By understanding the properties and applications of PDEs, students will be equipped to better analyze and interpret central processes of the natural world.

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## SCHAUMS OUTLINE OF TENSOR CALCULUS

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**McGraw-Hill Education** 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.

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## ELEMENTS OF INFORMATION THEORY

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**John Wiley & Sons** The latest edition of this classic is updated with new problem sets and material. The Second Edition of this fundamental textbook maintains the book's tradition of clear, thought-provoking instruction. Readers are provided once again with an instructive mix of mathematics, physics, statistics, and information theory. All the essential topics in information theory are covered in

detail, including entropy, data compression, channel capacity, rate distortion, network information theory, and hypothesis testing. The authors provide readers with a solid understanding of the underlying theory and applications. Problem sets and a telegraphic summary at the end of each chapter further assist readers. The historical notes that follow each chapter recap the main points. The Second Edition features: \* Chapters reorganized to improve teaching \* 200 new problems \* New material on source coding, portfolio theory, and feedback capacity \* Updated references Now current and enhanced, the Second Edition of Elements of Information Theory remains the ideal textbook for upper-level undergraduate and graduate courses in electrical engineering, statistics, and telecommunications.

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## REAL ANALYSIS

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**Springer Science & Business Media** Real Analysis is a comprehensive introduction to this core subject and is ideal for self-study or as a course textbook for first and second-year undergraduates. Combining an informal style with precision mathematics, the book covers all the key topics with fully worked examples and exercises with solutions. All the concepts and techniques are deployed in examples in the final chapter to provide the student with a thorough understanding of this challenging subject. This book offers a fresh approach to a core subject and manages to provide a gentle and clear introduction without sacrificing rigour or accuracy.

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## ADVANCED CALCULUS

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### REVISED

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**World Scientific Publishing Company** 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.

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## LINEAR MODELS IN STATISTICS

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**John Wiley & Sons** The essential introduction to the theory and application of linear models—now in a valuable new edition Since most advanced statistical tools are generalizations of the linear model, it is necessary to first master the linear model in order to move forward to more advanced concepts. The linear model remains the main tool of the applied statistician and is central to the training of any statistician regardless of whether the focus is applied or theoretical. This completely revised and updated new edition successfully develops the basic theory of linear models for regression, analysis of variance, analysis of covariance, and linear mixed models. Recent advances in the methodology related to linear mixed models, generalized linear models, and the Bayesian linear model are also addressed. Linear Models in Statistics, Second Edition includes full coverage of advanced topics, such as mixed and generalized linear models, Bayesian linear models, two-way models with empty cells, geometry of least squares, vector-matrix calculus, simultaneous inference, and logistic and nonlinear regression. Algebraic, geometrical, frequentist, and Bayesian approaches to both the inference of linear models and the analysis of variance are also illustrated. Through the expansion of relevant material and the inclusion of the latest technological developments in the field, this book provides readers with the theoretical foundation to correctly interpret computer software output as well as effectively use, customize, and understand linear models. This modern Second Edition features: New chapters on Bayesian linear models as well as random and mixed linear models Expanded discussion of two-way models with empty cells Additional sections on the geometry of least squares Updated coverage of simultaneous inference The book is complemented with easy-to-read proofs, real data sets, and an extensive bibliography. A thorough review of the requisite matrix algebra has been added for transitional purposes, and numerous theoretical and applied problems have been incorporated with selected answers provided at the end of the book. A related Web site includes additional data sets and SAS® code for all numerical examples. Linear Model in Statistics, Second Edition is a must-have book for courses in statistics, biostatistics, and mathematics at the upper-undergraduate and graduate levels. It is also an invaluable reference for researchers who need to gain a better understanding of regression and analysis of variance.

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## SCHAUM'S OUTLINE OF THEORY AND PROBLEMS OF ADVANCED MATHEMATICS FOR ENGINEERS AND SCIENTISTS

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**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.

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## MATHEMATICAL METHODS FOR PHYSICS AND ENGINEERING

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### A COMPREHENSIVE GUIDE

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**Cambridge University Press** The third edition of this highly acclaimed undergraduate textbook is suitable for teaching all the mathematics for an undergraduate course in any of the physical sciences. As well as lucid descriptions of all the topics and many worked examples, it contains over 800 exercises. New stand-alone chapters give a systematic account of the 'special functions' of physical science, cover an extended range of practical applications of complex variables, and give an introduction to quantum operators. Further tabulations, of relevance in statistics and numerical integration, have been added. In this edition, half of the exercises are provided with hints and answers and, in a separate manual available to both students and their teachers, complete worked solutions. The remaining exercises have no hints, answers or worked solutions and can be used for unaided homework; full solutions are available to instructors on a password-protected web site, [www.cambridge.org/9780521679718](http://www.cambridge.org/9780521679718).

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## SCHAUM'S OUTLINE OF LINEAR ALGEBRA, 5TH EDITION

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### 612 SOLVED PROBLEMS + 25 VIDEOS

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## SCHAUM'S OUTLINE OF PROBABILITY AND STATISTICS, 4TH EDITION

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### 897 SOLVED PROBLEMS + 20 VIDEOS

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**McGraw Hill Professional** A study-guide to probability and statistics that includes coverage of course concepts and 897 fully solved problems.

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## SCHAUM'S OUTLINE OF THEORY AND PROBLEMS OF ANALOG AND DIGITAL COMMUNICATIONS

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**Schaum's Outline Series** Revised to conform to the current curriculum in electrical and computer engineering, and reflecting the increased importance of digital technology in engineering, this is an updated, streamlined edition of the classic outline in analogue and digital communications.

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## SCHAUM'S OUTLINE OF ELECTROMAGNETICS

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**McGraw Hill Professional** Schaum's Outline of Electromagnetics is the perfect study aid. Loaded with solved problems and thorough descriptions of electromagnetics concepts, in plain English. Used along with your textbook, it helps you prepare for classroom exams, broadens your level of comprehension, and develops your intuitive problem-solving ability. Featuring hundreds of completely solved problems worked out step by step this popular Schaum's Outline shows you how to solve the kinds of problems you will find on your tests. So complete it can be used alone as an independent study course, it's also compatible with any course text. For better grades in courses covering electromagnetics you can't do better than this Schaum's Outline!

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## SCHAUM'S OUTLINE OF THEORY AND PROBLEMS OF THEORETICAL MECHANICS

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### WITH AN INTRODUCTION TO LAGRANGE'S EQUATIONS AND HAMILTONIAN THEORY

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**Schaum's Outline Series**

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**McGraw-Hill** Confusing Textbooks? Missed Lectures? Not Enough Time? Fortunately for you, there's Schaum's Outlines. 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 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.

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**SCHAUM'S OUTLINE OF THEORY AND PROBLEMS OF OPERATIONS RESEARCH**

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**SCHAUM'S OUTLINE OF THEORY AND PROBLEMS OF MATRICES**

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