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Steven Tan, 2020-07-11 An introduction to vector calculus with the aid of Mathematica computer algebra system to represent them and to calculate with them The unique features of the book which set it apart from the existing textbooks are the large number of illustrative examples It is the author s opinion a novice in science or engineering needs to see a lot of examples in which mathematics is used to be able to speak the language All these examples and all illustrations can be replicated and used to learn and discover vector calculus in a new and exciting way Reader can practice with the solutions and then modify them to solve the particular problems assigned This should move up problem solving skills and to use Mathematica to visualize the results and to develop a deeper intuitive understanding Usually visualization provides much more insight than the formulas themselves The second edition is an addition of the first Two new chapters on line integrals Green s Theorem Stokes s Theorem and Gauss s Theorem have been added *Schaum's Outline of PreCalculus, 2nd Ed.* Fred Safier, 2008-08-31 Schaum s has Satisfied Students for 50 Years Now Schaum s Biggest Sellers are in New Editions For half a century more than 40 million students have trusted Schaum s to help them study faster learn better and get top grades Now Schaum s celebrates its 50th birthday with a brand new look a new format with hundreds of practice problems and

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*Mathematical Principles of the Internet, Volume 2* Nirdosh Bhatnagar, 2018-11-21 This two volume set on Mathematical Principles of the Internet provides a comprehensive overview of the mathematical principles of Internet engineering The books do not aim to provide all of the mathematical foundations upon which the Internet is based Instead they cover a partial panorama and the key principles Volume 1 explores Internet engineering while the supporting mathematics is covered in Volume 2 The chapters on mathematics complement those on the engineering episodes and an effort has been made to make this work succinct yet self contained Elements of information theory algebraic coding theory cryptography Internet traffic dynamics and control of Internet congestion and queueing theory are discussed In addition stochastic networks graph theoretic algorithms application of game theory to the Internet Internet economics data mining and knowledge discovery and quantum computation communication and cryptography are also discussed In order to study the structure and function of the Internet only a basic knowledge of number theory abstract algebra matrices and determinants graph theory geometry analysis optimization theory probability theory and stochastic processes is required These mathematical disciplines are defined and developed in the books to the extent that is needed to develop and justify their application to Internet engineering

**Improper Riemann Integrals** Ioannis Roussos, 2023-09-27 The scope of this book is the improper or generalized Riemann integral and infinite sum series The reader will study its convergence principal value evaluation and application to science and engineering Improper Riemann integrals and infinite sums are interconnected In the new edition the author has involved infinite sums more than he did in the first edition Apart from having computed and listed a large number of improper integrals and infinite sums we have also developed the necessary theory and various ways of evaluating them or proving their divergence Questions problems and applications involving various improper integrals and infinite sums series of numbers emerge in science and application very often Their complete presentations and all rigorous proofs would require taking the graduate level courses on these subjects Here their statements are adjusted to a level students of all levels can understand and use them efficiently as powerful tools in a large list of problems and applications

Differential Equations: An Introduction To Basic Concepts, Results And Applications (Third Edition) Ioan I Vrabie, 2016-05-30 This book presents in a unitary frame and from a new perspective the main concepts and results of one of the most fascinating branches of modern mathematics namely differential equations and offers the reader another point of view concerning a possible way to approach the problems of existence uniqueness approximation and

continuation of the solutions to a Cauchy problem In addition it contains simple introductions to some topics which are not usually included in classical textbooks the exponential formula conservation laws generalized solutions Caratheodory solutions differential inclusions variational inequalities viability invariance and gradient systems In this new edition some typos have been corrected and two new topics have been added Delay differential equations and differential equations subjected to nonlocal initial conditions The bibliography has also been updated and expanded

**Mathematical Principles of the Internet, Two Volume Set** Nirdosh Bhatnagar, 2019-03-18 This two volume set on Mathematical Principles of the Internet provides a comprehensive overview of the mathematical principles of Internet engineering The books do not aim to provide all of the mathematical foundations upon which the Internet is based Instead these cover only a partial panorama and the key principles Volume 1 explores Internet engineering while the supporting mathematics is covered in Volume 2 The chapters on mathematics complement those on the engineering episodes and an effort has been made to make this work succinct yet self contained Elements of information theory algebraic coding theory cryptography Internet traffic dynamics and control of Internet congestion and queueing theory are discussed In addition stochastic networks graph theoretic algorithms application of game theory to the Internet Internet economics data mining and knowledge discovery and quantum computation communication and cryptography are also discussed In order to study the structure and function of the Internet only a basic knowledge of number theory abstract algebra matrices and determinants graph theory geometry analysis optimization theory probability theory and stochastic processes is required These mathematical disciplines are defined and developed in the books to the extent that is needed to develop and justify their application to Internet engineering

Improper Riemann Integrals Ioannis Markos Roussos, 2013-12-16 Improper Riemann Integrals is the first book to collect classical and modern material on the subject for undergraduate students The book gives students the prerequisites and tools to understand the convergence principal value and evaluation of the improper generalized Riemann integral It also illustrates applications to science and engineering problems The book contains the necessary background theorems and tools along with two lists of the most important integrals and sums computed in the text Numerous examples at various levels of difficulty illustrate the concepts and theorems The book uses powerful tools of real and complex analysis not only to compute the examples and solve the problems but also to justify that the computation methods are legitimate Enriched with many examples applications and problems this book helps students acquire a deeper understanding of the subject preparing them for further study It shows how to solve the integrals without exclusively relying on tables and computer packages

**Advanced Calculus** Thomas P. Dence, Joseph B. Dence, 2009-12-02 Advanced Calculus explores the theory of calculus and highlights the connections between calculus and real analysis providing a mathematically sophisticated introduction to functional analytical concepts The text is interesting to read and includes many illustrative worked out examples and instructive exercises and precise historical notes to aid in further exploration of calculus It covers exponential function and

the development of trigonometric functions from the integral The text is designed for a one semester advanced calculus course for advanced undergraduates or graduate students Appropriate rigor for a one semester advanced calculus course Presents modern materials and nontraditional ways of stating and proving some results Includes precise historical notes throughout the book outstanding feature is the collection of exercises in each chapter Provides coverage of exponential function and the development of trigonometric functions from the integral

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