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**Foundations of Applied Mathematics** Michael D. Greenberg 2013-01-01 "A longtime classic text in applied mathematics, this volume also serves as a reference for undergraduate and

graduate students of engineering. Topics include real variable theory, complex variables, linear analysis, partial and ordinary differential equations, and other subjects. Answers to selected exercises are provided, along with

Fourier and Laplace transformation tables and useful formulas. 1978 edition"--

**The Lebesgue-Stieltjes Integral** M. Carter  
2012-12-06 While mathematics students generally meet the Riemann integral early in their undergraduate studies, those whose interests lie more in the direction of applied mathematics will probably find themselves needing to use the Lebesgue or Lebesgue-Stieltjes Integral before they have acquired the necessary theoretical background. This book is aimed at exactly this group of readers. The authors introduce the Lebesgue-Stieltjes integral on the real line as a natural extension of the Riemann integral, making the treatment as practical as possible. They discuss the evaluation of Lebesgue-Stieltjes integrals in detail, as well as the standard convergence theorems, and conclude with a brief discussion of multivariate integrals and surveys of  $L$  spaces plus some applications. The whole is rounded off with exercises that extend and illustrate the theory,

as well as providing practice in the techniques.

**Mathematical Methods in the Physical Sciences** Mary L. Boas 2006 Market\_Desc: · Physicists and Engineers· Students in Physics and Engineering Special Features: · Covers everything from Linear Algebra, Calculus, Analysis, Probability and Statistics, to ODE, PDE, Transforms and more· Emphasizes intuition and computational abilities· Expands the material on DE and multiple integrals· Focuses on the applied side, exploring material that is relevant to physics and engineering· Explains each concept in clear, easy-to-understand steps About The Book: The book provides a comprehensive introduction to the areas of mathematical physics. It combines all the essential math concepts into one compact, clearly written reference. This book helps readers gain a solid foundation in the many areas of mathematical methods in order to achieve a basic competence in advanced physics, chemistry, and engineering.

## **DIFFERENTIAL EQUATIONS AND THEIR APPLICATIONS** ZAFAR AHSAN 2016-07-01

Primarily intended for the undergraduate students of mathematics, physics and engineering, this text gives in-depth coverage of differential equations and the methods for solving them. The book begins with the definitions, the physical and geometric origins of differential equations, and the methods for solving the first order differential equations. Then it goes on to give the applications of these equations to such areas as biology, medical sciences, electrical engineering and economics. The text also discusses, systematically and logically, higher order differential equations and their applications to telecommunications, civil engineering, cardiology and detection of diabetes, as also the methods of solving simultaneous differential equations and their applications. Besides, the book provides a detailed discussion on Laplace transforms and their applications, partial differential equations

and their applications to vibration of stretched string, heat flow, transmission lines, etc., and calculus of variations and its applications. The book, which is a happy fusion of theory and application, would also be useful to postgraduate students. **NEW TO THIS EDITION** • New sections on: (a) Equations reducible to linear partial differential equations (b) General method for solving the second order non-linear partial differential equations (Monge's Method) (c) Lagrange's equations of motion • Number of solved examples in Chapters 5, 7, 8, 9 and 10. Mathematics for Physicists Philippe Dennery 2012-06-11 Superb text provides math needed to understand today's more advanced topics in physics and engineering. Theory of functions of a complex variable, linear vector spaces, much more. Problems. 1967 edition.

**Wavefronts and Rays as Characteristics and Asymptotics** Andrej BÅ³na 2014-12-30 This textbook — incorporated with many illuminating examples and exercises — is aimed at graduate

students of physical sciences and engineering. The purpose is to provide a background of physics and underlying mathematics for the concept of rays, filling the gap between mathematics and physics textbooks for a coherent treatment of all topics. The authors' emphasis and extremely good presentation of the theory of characteristics, which defines the rays, accentuate the beauty and versatility of this theory. To this end, the rigour of the formulation — by a pure mathematician's standards — is downplayed to highlight the physical meaning and to make the subject accessible to a wider audience. The authors describe in detail the theory of characteristics for different types of differential equations, the applications to wave propagation in different types of media, and phenomena such as caustics. Introduction to Mathematical Physics Chun Wa Wong 2013-01-24 Mathematical physics provides physical theories with their logical basis and the tools for drawing conclusions from hypotheses.

Introduction to Mathematical Physics explains to the reader why and how mathematics is needed in the description of physical events in space. For undergraduates in physics, it is a classroom-tested textbook on vector analysis, linear operators, Fourier series and integrals, differential equations, special functions and functions of a complex variable. Strongly correlated with core undergraduate courses on classical and quantum mechanics and electromagnetism, it helps the student master these necessary mathematical skills. It contains advanced topics of interest to graduate students on relativistic square-root spaces and nonlinear systems. It contains many tables of mathematical formulas and references to useful materials on the Internet. It includes short tutorials on basic mathematical topics to help readers refresh their mathematical knowledge. An appendix on Mathematica encourages the reader to use computer-aided algebra to solve problems in mathematical physics. A free Instructor's

Solutions Manual is available to instructors who order the book for course adoption.

**Chemical Group Theory** Danail Bonchev 1995

In modern times, group-theoretical principles have been exploited in the study of atomic and molecular systems, electronic and vibrational spectra of all kinds, a wide variety of thermodynamic systems, chemical reactions, the enumeration of a host of differing chemical species, and the chemical combinatorial problems of many kinds. Chapter 1 of this volume sets out by addressing the meaning of the term 'group representation.' It explores the various theoretical frameworks that have evolved for the application of group theory in the physical sciences. Specific applications of combinatorial techniques, derived from or built around the Enumeration Theorem of Polya in the study of spectroscopy is the theme adopted in chapter 2. In chapter 3 the spotlight falls on methods that may be used to obtain the eigenvalue spectra of a wide variety of

chemically significant molecular graphs, while the problem of treatment of molecular species that do not have a rigid molecular skeleton is addressed in chap  
Analytic Hyperbolic Geometry And Albert Einstein's Special Theory Of Relativity (Second Edition) Abraham Albert Ungar 2022-02-22 This book presents a powerful way to study Einstein's special theory of relativity and its underlying hyperbolic geometry in which analogies with classical results form the right tool. The premise of analogy as a study strategy is to make the unfamiliar familiar. Accordingly, this book introduces the notion of vectors into analytic hyperbolic geometry, where they are called gyrovectors. Gyrovectors turn out to be equivalence classes that add according to the gyroparallelogram law just as vectors are equivalence classes that add according to the parallelogram law. In the gyrolanguage of this book, accordingly, one prefixes a gyro to a classical term to mean the analogous term in

hyperbolic geometry. As an example, the relativistic gyrotrigonometry of Einstein's special relativity is developed and employed to the study of the stellar aberration phenomenon in astronomy. Furthermore, the book presents, for the first time, the relativistic center of mass of an isolated system of noninteracting particles that coincided at some initial time  $t = 0$ . It turns out that the invariant mass of the relativistic center of mass of an expanding system (like galaxies) exceeds the sum of the masses of its constituent particles. This excess of mass suggests a viable mechanism for the formation of dark matter in the universe, which has not been detected but is needed to gravitationally 'glue' each galaxy in the universe. The discovery of the relativistic center of mass in this book thus demonstrates once again the usefulness of the study of Einstein's special theory of relativity in terms of its underlying hyperbolic geometry. *Mathematical Methods for Geophysics and Space Physics* William I. Newman 2016-05-03 An

essential textbook on the mathematical methods used in geophysics and space physics Graduate students in the natural sciences—including not only geophysics and space physics but also atmospheric and planetary physics, ocean sciences, and astronomy—need a broad-based mathematical toolbox to facilitate their research. In addition, they need to survey a wider array of mathematical methods that, while outside their particular areas of expertise, are important in related ones. While it is unrealistic to expect them to develop an encyclopedic knowledge of all the methods that are out there, they need to know how and where to obtain reliable and effective insights into these broader areas. Here at last is a graduate textbook that provides these students with the mathematical skills they need to succeed in today's highly interdisciplinary research environment. This authoritative and accessible book covers everything from the elements of vector and tensor analysis to ordinary differential equations, special

functions, and chaos and fractals. Other topics include integral transforms, complex analysis, and inverse theory; partial differential equations of mathematical geophysics; probability, statistics, and computational methods; and much more. Proven in the classroom, *Mathematical Methods for Geophysics and Space Physics* features numerous exercises throughout as well as suggestions for further reading. Provides an authoritative and accessible introduction to the subject Covers vector and tensor analysis, ordinary differential equations, integrals and approximations, Fourier transforms, diffusion and dispersion, sound waves and perturbation theory, randomness in data, and a host of other topics Features numerous exercises throughout Ideal for students and researchers alike An online illustration package is available to professors

**Essential Mathematical Methods for Physicists** Hans-Jurgen Weber 2004 This adaptation of Arfken and Weber's bestselling

'*Mathematical Methods for Physicists*' is a comprehensive, accessible reference for using mathematics to solve physics problems. Introductions and review material provide context and extra support for key ideas, with detailed examples.

### **Microwave and RF Product Applications**

Mike Golio 2003-06-27 The field of microwave engineering has undergone a radical transformation in recent years, as commercial wireless endeavors overtook defense and government work. The modern microwave and RF engineer must be knowledgeable about customer expectations, market trends, manufacturing technologies, and factory models to a degree that is unprecedented. Unfortunately, most of the available literature does not reflect this fact, but remains focused on high-performance, low-volume applications. *Microwave and RF Product Applications* helps resolve that deficiency. Editor Mike Golio culled its chapters from his bestselling RF and

Microwave Handbook, incorporated critical updates contributed by the original authors, and organized the chapters into a practical, tightly focused reference. A complete table of contents at the front of the text makes finding specific answers quick and easy, and detailed lists of references in each chapter provide convenient access to the relevant expert literature. For engineers in industry, government, or academia, Microwave and RF Product Applications provides insight and information that may be outside their area of expertise. For managers, marketers, and technical support personnel, it builds a better understanding of the fields that drive and are affected by their decisions.

*Mathematics for the Physical Sciences* James B. Seaborn 2012-12-06 The book provides a bridge from courses in general physics to the intermediate-level courses in classical mechanics, electrodynamics and quantum mechanics. The author bases the mathematical discussions on specific physical problems to

provide a basis for developing mathematical intuition.

Mathematical Methods Sadri Hassani 2013-11-11 Intended to follow the usual introductory physics courses, this book contains many original, lucid and relevant examples from the physical sciences, problems at the ends of chapters, and boxes to emphasize important concepts to help guide students through the material.

**Mathematical Methods for Physicists** George Brown Arfken 2013 Providing coverage of the mathematics necessary for advanced study in physics and engineering, this text focuses on problem-solving skills and offers a vast array of exercises, as well as clearly illustrating and proving mathematical relations.

**Lectures on Light: Nonlinear and Quantum Optics Using the Density Matrix** Stephen Rand 2010-06-17 "A textbook which thoroughly introduces the density matrix formalism and applies it to a range of topics of current interest

constitutes a 'missing link' among quantum optics textbooks."-Christoph Becher, Saarland University, Germany --

*Numerical Recipes with Source Code CD-ROM 3rd Edition* William H. Press 2007-09 CD-ROM contains source code.

**Mathematical Methods For Physicists International Student Edition** George B. Arfken 2005-07-05 This best-selling title provides in one handy volume the essential mathematical tools and techniques used to solve problems in physics. It is a vital addition to the bookshelf of any serious student of physics or research professional in the field. The authors have put considerable effort into revamping this new edition. Updates the leading graduate-level text in mathematical physics Provides comprehensive coverage of the mathematics necessary for advanced study in physics and engineering Focuses on problem-solving skills and offers a vast array of exercises Clearly illustrates and proves mathematical relations

New in the Sixth Edition: Updated content throughout, based on users' feedback More advanced sections, including differential forms and the elegant forms of Maxwell's equations A new chapter on probability and statistics More elementary sections have been deleted  
*Quantum Field Theory Approach to Condensed Matter Physics* Eduardo C. Marino 2017-09-28  
Independent electrons and static crystals --  
Vibrating crystals -- Interacting electrons --  
Interactions in action -- Functional formulation of quantum field theory -- Quantum fields in action -- Symmetries: explicit or secret --  
Classical topological excitations -- Quantum topological excitations -- Duality, bosonization and generalized statistics -- Statistical transmutation -- Pseudo quantum electrodynamics -- Quantum field theory methods in condensed matter -- Metals, Fermi liquids, Mott and Anderson insulators -- The dynamics of polarons -- Polyacetylene -- The Kondo effect -- Quantum magnets in 1D:

Fermionization, bosonization, Coulomb gases and 'all that' -- Quantum magnets in 2D: nonlinear sigma model, CP1 and 'all that' -- The spin-fermion system: a quantum field theory approach -- The spin glass -- Quantum field theory approach to superfluidity -- Quantum field theory approach to superconductivity -- The cuprate high-temperature superconductors -- The pnictides: iron based superconductors -- The quantum Hall effect -- Graphene -- Silicene and transition metal dichalcogenides -- Topological insulators -- Non-abelian statistics and quantum computation

**Numerical Recipes 3rd Edition** William H. Press 2007-09-06 The essential text and reference for modern scientific computing now also covers computational geometry, classification and inference, and much more. *Foundations in Applied Nuclear Engineering Analysis* Glenn E Sjoden 2015-01-13 Foundations in Applied Nuclear Engineering Analysis (2nd Edition) covers a fast-paced one semester course

to address concepts of modeling in mathematics, engineering analysis, and computational problem solving needed in subjects such as radiation interactions, heat transfer, reactor physics, radiation transport, numerical modeling, etc., for success in a nuclear engineering/medical physics curriculum. While certain topics are covered tangentially, others are covered in depth to target on the appropriate amalgam of topics for success in navigating nuclear-related disciplines. Software examples and programming are used throughout the book, since computational capabilities are essential for new engineers. The book contains a array of topics that cover the essential subjects expected for students to successfully navigate into nuclear-related disciplines. The text assumes that students have familiarity with undergraduate mathematics and physics, and are ready to apply those skills to problems in nuclear engineering. Applications and problem sets are directed toward problems in nuclear

science. Software examples using Mathematica software are used in the text. This text was developed as part of a very applied course in mathematical physics methods for nuclear engineers. The course in Nuclear Engineering Analysis that follows this text began at the University of Florida; the 2nd edition was released while at the Georgia Institute of Technology.

**CRC Concise Encyclopedia of Mathematics**

Eric W. Weisstein 2002-12-12 Upon publication, the first edition of the CRC Concise Encyclopedia of Mathematics received overwhelming accolades for its unparalleled scope, readability, and utility. It soon took its place among the top selling books in the history of Chapman & Hall/CRC, and its popularity continues unabated. Yet also unabated has been the d

**Mathematical Physics** Sadri Hassani

2002-02-08 For physics students interested in the mathematics they use, and for math students

interested in seeing how some of the ideas of their discipline find realization in an applied setting. The presentation strikes a balance between formalism and application, between abstract and concrete. The interconnections among the various topics are clarified both by the use of vector spaces as a central unifying theme, recurring throughout the book, and by putting ideas into their historical context. Enough of the essential formalism is included to make the presentation self-contained.

**University Physics** George Arfken 2012-12-02

University Physics provides an authoritative treatment of physics. This book discusses the linear motion with constant acceleration; addition and subtraction of vectors; uniform circular motion and simple harmonic motion; and electrostatic energy of a charged capacitor. The behavior of materials in a non-uniform magnetic field; application of Kirchhoff's junction rule; Lorentz transformations; and Bernoulli's equation are also deliberated. This

text likewise covers the speed of electromagnetic waves; origins of quantum physics; neutron activation analysis; and interference of light. This publication is beneficial to physics, engineering, and mathematics students intending to acquire a general knowledge of physical laws and conservation principles.

**Mathematical Physics Research at the Cutting Edge** Charles V. Benton 2004 Physics and mathematics have always been closely intertwined, with developments in one field frequently inspiring the other. Currently, there are many unsolved problems in physics which will likely require innovations in mathematical physics. Mathematical physics is concerned with problems in statistical mechanics, atomic and molecular physics, quantum field theory, and, in general, with the mathematical foundations of theoretical physics. mechanics (both nonrelativistic and relativistic), atomic and molecular physics, the existence and properties

of the phases of model ferromagnets, the stability of matter, the theory of symmetry and symmetry breaking in quantum field theory (both in general and in concrete models), and mathematical developments in functional analysis and algebra to which such subjects lead. This book presents leading-edge research in this fast-moving field. Structure of the Kalb-Ramond Gauge Symmetry and Spinor Representations; Group Theoretical Interpretation of CPT-Theorem; Cross Recurrence Plots and Their Applications; Analytical Solutions of the Radiative Transfer Equation in One-dimensional Spherical Geometry With Central Symmetry; Hyperspherical Functions and Harmonic Analysis on the Lorentz Group; The Next Stage: Quantum Game Theory; Index.

**The RF and Microwave Handbook** Mike Golio 2000-12-20 The recent shift in focus from defense and government work to commercial wireless efforts has caused the job of the typical microwave engineer to change dramatically. The

modern microwave and RF engineer is expected to know customer expectations, market trends, manufacturing technologies, and factory models to a degree that is unprecedented in the *RF and Microwave Applications and Systems* Mike Golio 2018-10-03 This volume, *RF and Microwave Applications and Systems*, includes a wide range of articles that discuss RF and microwave systems used for communication and radar and heating applications. Commercial, avionics, medical, and military applications are addressed. An overview of commercial communications systems is provided. Past, current, and emerging cellular systems, navigation systems, and satellite-based systems are discussed. Specific voice and data commercial systems are investigated more thoroughly in individual chapters that follow. Detailed discussions of military electronics, avionics, and radar (both military and automotive) are provided in separate chapters. A chapter focusing on FR/microwave energy used

for therapeutic medicine is also provided. Systems considerations including thermal, mechanical, reliability, power management, and safety are discussed in separate chapters. Engineering processes are also explored in articles about corporate initiatives, cost modeling, and design reviews. The book closes with a discussion of the underlying physics of electromagnetic propagation and interference. In addition to new chapters on WiMAX and broadband cable, nearly every existing chapter features extensive updates and several were completely rewritten to reflect the massive changes areas such as radio navigation and electronic warfare.

*Intermediate Dynamics* Patrick Hamill 2022-03-31 A comprehensive but accessible advanced undergraduate treatment of classical mechanics, adaptable to a one or two-semester course.

*The Art and Science of Ultrawideband Antennas, Second Edition* Hans G. Schantz 2015-06-01 This

comprehensive treatment of ultrawideband (UWB) antennas and time-domain microwave engineering serves as an invaluable practical reference for anyone involved in antenna and RF design work. This authoritative volume enables readers to select the proper UWB antennas for their applications, design and analyze UWB antennas, and integrate these antennas in an RF system. By applying time-domain thinking to problems of practical interest, the reader will not only learn how to build and analyze antennas, but also understand them at the most fundamental level. This second edition is updated and expanded throughout, providing readers with a history of antennas, numerous new problem sets and worked examples, along with new information on plotting time-domain field lines, time-domain reflectometry, matching techniques, and more. This book also addresses system issues like spectral control and antenna efficiency.

Mathematical Methods for Physics and

Engineering K. F. Riley 2006-03-13 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).

**Solid State and Quantum Theory for**

**Optoelectronics** Michael A. Parker 2009-12-16

While applications rapidly change one to the next in our commercialized world, fundamental principles behind those applications remain constant. So if one understands those principles well enough and has ample experience in applying them, he or she will be able to develop a capacity for reaching results via conceptual thinking rather than having to

**An Elementary Course on Partial**

**Differential Equations** Aftab Alam 2022-09-30

This book will be useful for elementary courses in Partial Differential Equations for undergraduate programmes in pure and applied mathematics.

Mathematical Methods for Scientists and Engineers Donald Allan McQuarrie 2003

Intended for upper-level undergraduate and graduate courses in chemistry, physics, mathematics and engineering, this text is also

suitable as a reference for advanced students in the physical sciences. Detailed problems and worked examples are included.

**Mathematical Methods for Physicists** George

B. Arfken 2013-10-22 Mathematical Methods for Physicists, Third Edition provides an advanced undergraduate and beginning graduate study in physical science, focusing on the mathematics of theoretical physics. This edition includes sections on the non-Cartesian tensors, dispersion theory, first-order differential equations, numerical application of Chebyshev polynomials, the fast Fourier transform, and transfer functions. Many of the physical examples provided in this book, which are used to illustrate the applications of mathematics, are taken from the fields of electromagnetic theory and quantum mechanics. The Hermitian operators, Hilbert space, and concept of completeness are also deliberated. This book is beneficial to students studying graduate level physics, particularly theoretical physics.

Mathematical Methods In Classical And Quantum Physics Tulsı Dass 1998 This book is intended to provide an adequate background for various theoretical physics courses, especially those in classical mechanics, electrodynamics, quantum mechanics and statistical physics. Each topic is dealt with in a generally self-contained manner and the text is interspersed with a number of solved examples and a large number of exercise problems.

*Special Functions of Mathematical Physics* NIKIFOROV 2013-11-11 With students of Physics chiefly in mind, we have collected the material on special functions that is most important in mathematical physics and quantum mechanics. We have not attempted to provide the most extensive collection possible of information about special functions, but have set ourselves the task of finding an exposition which, based on a unified approach, ensures the possibility of applying the theory in other natural sciences, since it provides a simple and effective

method for the independent solution of problems that arise in practice in physics, engineering and mathematics. For the American edition we have been able to improve a number of proofs; in particular, we have given a new proof of the basic theorem (§3). This is the fundamental theorem of the book; it has now been extended to cover difference equations of hypergeometric type (§§12, 13). Several sections have been simplified and contain new material. We believe that this is the first time that the theory of classical or orthogonal polynomials of a discrete variable on both uniform and nonuniform lattices has been given such a coherent presentation, together with its various applications in physics.

DIFFERENTIAL EQUATIONS AND THEIR APPLICATIONS ZAFAR AHSAAN 2004-01-01 Primarily intended for the undergraduate students in Mathematics, Physics and Engineering, this text gives in-depth coverage of differential equations and the methods of solving them. The book begins with the basic definitions,

the physical and geometric origins of differential equations, and the methods for solving first-order differential equations. Then it goes on to give the applications of these equations to such areas as biology, medical sciences, electrical engineering and economics. The text also discusses, systematically and logically, higher-order differential equations and their applications to telecom-munications, civil engineering, cardiology and detection of diabetes, as also the methods of solving simultaneous differential equations and their applications. Besides, the book provides a detailed discussion on Laplace transform and their applications, partial differential equations and their applications to vibration of a stretched string, heat flow, transmission lines, etc., and calculus of variations and its applications. This book, which is a happy fusion of theory and application, would also be useful to postgraduate students.

**Modern Quantum Mechanics** J. J. Sakurai

2017-09-30 A comprehensive and engaging textbook, providing a graduate-level, non-historical, modern introduction of quantum mechanical concepts.

**Ground Motion Seismology** Kazuki Koketsu  
2021-01-04 This book explains the physics behind seismic ground motions and seismic waves to graduate and upper undergraduate students as well as to professionals. Both seismic ground motions and seismic waves are terms for “shaking” due to earthquakes, but it is common that shaking in the near-field of an earthquake source is called seismic ground motion and in the far-field is called seismic waves. Seismic ground motion is often described by the tensor formula based on the representation theorem, but in this book explicit formulation is emphasized beginning with Augustus Edward Hough Love (1863 – 1940). The book also explains in depth the equations and methods used for analysis and computation of shaking close to an earthquake source. In addition, it

provides in detail information and knowledge related to teleseismic body waves, which are frequently used in the analysis of the source of

an earthquake.

Advanced University Physics, Second Edition

Stuart B. Palmer 1995-09-01