

Mathematical Methods of Modern Physics

Prof. Dr. Bernd Rosenow, SS 2024

For: Bachelor: Physics (6. semester) & IPSP (6. semester),
Master: Physics & IPSP & Mathematical Physics

Workload: 5 LP, 1 lecture (English) + 1 tutorial (English) per week

Exam: 1 exam (90 min), prerequisite is 50% of the points from the weekly exercise sheets

Contents:

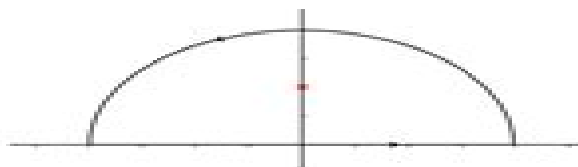
- Complex analysis:

- Holomorphic functions
- Residue theorem
- Laurent series
- Applications to real integrals

$$f'(z_0) = \left. \frac{df(z)}{dz} \right|_{z_0}$$

$$\oint_{\gamma} f(z) dz = 2\pi i \sum_k \Gamma(\gamma, a_k) \operatorname{Res}(f, a_k)$$

$$f(z) = \sum_{n=-\infty}^{\infty} b_n z^n$$



$$\int_{-\infty}^{\infty} \frac{1}{x^2 + 1} dx = 2\pi i \frac{1}{2i} = \pi$$

- Distributions and Fourier transformation

$$G^<(k, E) = \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \frac{1}{2\pi} \frac{e^{-ixk} e^{iEt}}{x - vt - i\delta} dx dt = 2\pi i \delta(E - vk) \Theta(-vk)$$

- Eigenvalues and eigenfunctions

Mathematical Methods In Physics

John W. Dettman



Mathematical Methods In Physics:

Mathematical Methods Sadri Hassani, 2013-11-11 Intended to follow the usual introductory physics courses this book has the unique feature of addressing the mathematical needs of sophomores and juniors in physics engineering and other related fields Beginning with reviews of vector algebra and differential and integral calculus the book continues with infinite series vector analysis complex algebra and analysis ordinary and partial differential equations Discussions of numerical analysis nonlinear dynamics and chaos and the Dirac delta function provide an introduction to modern topics in mathematical physics This new edition has been made more user friendly through organization into convenient shorter chapters Also it includes an entirely new section on Probability and plenty of new material on tensors and integral transforms Some praise for the previous edition The book has many strengths For example Each chapter starts with a preamble that puts the chapters in context Often the author uses physical examples to motivate definitions illustrate relationships or culminate the development of particular mathematical strands The use of Maxwell's equations to cap the presentation of vector calculus a discussion that includes some tidbits about what led Maxwell to the displacement current is a particularly enjoyable example Historical touches like this are not isolated cases the book includes a large number of notes on people and ideas subtly reminding the student that science and mathematics are continuing and fascinating human activities Physics Today Very well written i e extremely readable very well targeted mainly to an average student of physics at a point of just leaving his/her sophomore level and very well concentrated to an author's apparently beloved subject of PDE's with applications and with all their necessary pedagogically mathematical background The main merits of the text are its clarity achieved via returns and innovations of the context balance building the subject step by step and originality recollect the existence of the complex numbers is only admitted far in the second half of the text Last but not least the student reader is impressed by the graphical quality of the text figures first of all but also boxes with the essentials summarizing comments in the left column etc Summarizing Well done Zentralblatt MATH

Mathematical Methods for Physicists George B. Arfken, Hans J. Weber, Frank E. Harris, 2011-12-26 Now in its 7th edition *Mathematical Methods for Physicists* continues to provide all the mathematical methods that aspiring scientists and engineers are likely to encounter as students and beginning researchers This bestselling text provides mathematical relations and their proofs essential to the study of physics and related fields While retaining the key features of the 6th edition the new edition provides a more careful balance of explanation theory and examples Taking a problem solving skills approach to incorporating theorems with applications the book's improved focus will help students succeed throughout their academic careers and well into their professions Some notable enhancements include more refined and focused content in important topics improved organization updated notations extensive explanations and intuitive exercise sets a wider range of problem solutions improvement in the placement and a wider range of difficulty of exercises Revised and updated version of the leading text in mathematical physics Focuses on problem solving skills and active

learning offering numerous chapter problems Clearly identified definitions theorems and proofs promote clarity and understanding New to this edition Improved modular chapters New up to date examples More intuitive explanations

Mathematical Methods For Physics H. W. Wyld, 2018-03-14 This classic book helps students learn the basics in physics by bridging the gap between mathematics and the basic fundamental laws of physics With supplemental material such as graphs and equations Mathematical Methods for Physics creates a strong solid anchor of learning The text has three parts Part I focuses on the use of special functions in solving the homogeneous partial differential equations of physics and emphasizes applications to topics such as electrostatics wave guides and resonant cavities vibrations of membranes heat flow potential flow in fluids plane and spherical waves Part II deals with the solution of inhomogeneous differential equations with particular emphasis on problems in electromagnetism Green's functions for Poisson's equation the wave equation and the diffusion equation and the solution of integral equations by iteration eigenfunction expansion and the Fredholm series Finally Part II explores complex variable techniques including evaluation of integrals dispersion relations special functions in the complex plane one sided Fourier transforms and Laplace transforms

Mathematical Methods in Physics and Engineering John W. Dettman, 2013-01-23 Intended for college level physics engineering or mathematics students this volume offers an algebraically based approach to various topics in applied math It is accessible to undergraduates with a good course in calculus which includes infinite series and uniform convergence Exercises follow each chapter to test the student's grasp of the material however the author has also included exercises that extend the results to new situations and lay the groundwork for new concepts to be introduced later A list of references for further reading will be found at the end of each chapter For this second revised edition Professor Dettman included a new section on generalized functions to help explain the use of the Dirac delta function in connection with Green's functions In addition a new approach to series solutions of ordinary differential equations has made the treatment independent of complex variable theory This means that the first six chapters can be grasped without prior knowledge of complex variables However since Chapter 8 depends heavily on analytic functions of a complex variable a new Chapter 7 on analytic function theory has been written

Guide To Mathematical Methods For Physicists, A: With Problems And Solutions Michela Petrini, Gianfranco Pradisi, Alberto Zaffaroni, 2017-07-07

Mathematics plays a fundamental role in the formulation of physical theories This textbook provides a self contained and rigorous presentation of the main mathematical tools needed in many fields of Physics both classical and quantum It covers topics treated in mathematics courses for final year undergraduate and graduate physics programmes including complex function distributions Fourier analysis linear operators Hilbert spaces and eigenvalue problems The different topics are organised into two main parts complex analysis and vector spaces in order to stress how seemingly different mathematical tools for instance the Fourier transform eigenvalue problems or special functions are all deeply interconnected Also contained within each chapter are fully worked examples problems and detailed solutions A companion volume covering

more advanced topics that enlarge and deepen those treated here is also available

Mathematical Methods for Physicists George B. Arfken, Hans J. Weber, 2013-10-22 This new and completely revised Fourth Edition provides thorough coverage of the important mathematics needed for upper division and graduate study in physics and engineering Following more than 28 years of successful class testing Mathematical Methods for Physicists is considered the standard text on the subject A new chapter on nonlinear methods and chaos is included as are revisions of the differential equations and complex variables chapters The entire book has been made even more accessible with special attention given to clarity completeness and physical motivation It is an excellent reference apart from its course use This revised Fourth Edition includes Modernized terminology Group theoretic methods brought together and expanded in a new chapter An entirely new chapter on nonlinear mathematical physics Significant revisions of the differential equations and complex variables chapters Many new or improved exercises Forty new or improved figures An update of computational techniques for today's contemporary tools such as microcomputers Numerical Recipes and Mathematica among others

Some Mathematical Methods of Physics Gerald Goertzel, Nunzio Tralli, 2014-06-18 Well rounded thorough treatment introduces basic concepts of mathematical physics involved in the study of linear systems with emphasis on eigenvalues eigenfunctions and Green's functions Topics include discrete and continuous systems and approximation methods 1960 edition

Mathematical Methods for Physicists George Brown Arfken, Hans-Jurgen Weber, 1995-01-01 The revised fourth edition provides thorough coverage of the important mathematics needed for upper division and graduate study in physics and engineering After more than 28 years of successful class testing Mathematical Methods for Physicists is considered the standard text on the subject Features a new chapter on nonlinear mathematical physics

A Course in Mathematical Methods for Physicists Russell L. Herman, 2013-12-04 Based on the author's junior level undergraduate course this introductory textbook is designed for a course in mathematical physics Focusing on the physics of oscillations and waves A Course in Mathematical Methods for Physicists helps students understand the mathematical techniques needed for their future studies in physics It takes a bottom up

Mathematical Methods for Physicists Tai L. Chow, 2000-07-27 This text is designed for an intermediate level two semester undergraduate course in mathematical physics It provides an accessible account of most of the current important mathematical tools required in physics these days It is assumed that the reader has an adequate preparation in general physics and calculus The book bridges the gap between an introductory physics course and more advanced courses in classical mechanics electricity and magnetism quantum mechanics and thermal and statistical physics The text contains a large number of worked examples to illustrate the mathematical techniques developed and to show their relevance to physics The book is designed primarily for undergraduate physics majors but could also be used by students in other subjects such as engineering astronomy and mathematics

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