

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:

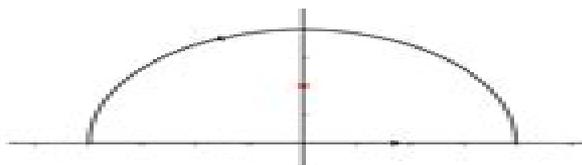
- Complex analysis:

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

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

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

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



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

- 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

Introduction To Mathematical Physics Methods Concepts

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Mathematical Methods Sadri Hassani,2008-10-08 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 Many original lucid and relevant examples from the physical sciences problems at the ends of chapters and boxes to emphasize important concepts help guide the student through the material 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

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to oft neglected topics such as Green s functions *The Best Books for Academic Libraries: Science, technology, and agriculture*, 2002 **Undergraduate Announcement** University of Michigan--Dearborn, 1983 **Mathematical Methods in Physics, Engineering, and Chemistry** Brett Borden, James Luscombe, 2019-11-12 A concise and up to date introduction to mathematical methods for students in the physical sciences Mathematical Methods in Physics Engineering and Chemistry offers an introduction to the most important methods of theoretical physics Written by two physics professors with years of experience the text puts the focus on the essential math topics that the majority of physical science students require in the course of their studies This concise text also contains worked examples that clearly illustrate the mathematical concepts presented and shows how they apply to physical problems This targeted text covers a range of topics including linear algebra partial differential equations power series Sturm Liouville theory Fourier series special functions complex analysis the Green s function method integral equations and tensor analysis This important text Provides a streamlined approach to the subject by putting the focus on the mathematical topics that physical science students really need Offers a text that is different from the often found definition theorem proof scheme Includes more than 150 worked examples that help with an understanding of the problems presented Presents a guide with more than 200 exercises with different degrees of difficulty Written for advanced undergraduate and graduate students of physics materials science and engineering Mathematical Methods in Physics Engineering and Chemistry includes the essential methods of theoretical physics The text is streamlined to provide only the most important mathematical concepts that apply to physical problems **Introduction to Mathematical Physics** Michael T. Vaughn, 2007-06-18 A comprehensive survey of all the mathematical methods that should be available to graduate students in physics In addition to the usual topics of analysis such as infinite series functions of a complex variable and some differential equations as well as linear vector spaces this book includes a more extensive discussion of group theory than can be found in other current textbooks The main feature of this textbook is its extensive treatment of geometrical methods as applied to physics With its introduction of differentiable manifolds and a discussion of vectors and forms on such manifolds as part of a first year graduate course in mathematical methods the text allows students to grasp at an early stage the contemporary literature on dynamical systems solitons and related topological solutions to field equations gauge theories gravitational theory and even string theory Free solutions manual available for lecturers at www.wiley-vch.de supplements *Announcement* University of Michigan--Dearborn, 1979 *Annual Catalogue* United States Air Force Academy, 1983 **United States Air Force Academy** United States Air Force Academy, **Concepts and Methods of Arithmetic** Marvin Chesley Volpel, 1964 Based in part on an earlier shorter version published as lithoprinted notes in 1960 under the title *Fundamental concepts of arithmetic* *College of Literature, Science, and the Arts* University of Michigan. College of Literature, Science, and the Arts, 1923 **An Elemenatary Treatise on Fourier's Series, and Spherical, Cylindrical, and Ellipsoidal Harmonics, with Applications to Problems in Mathematical Physics** William Elwood Byerly, 1893

New Scientist, 1991 **Mathematics for Physicists** Alexander Altland, Jan von Delft, 2019-02-14 This textbook is a comprehensive introduction to the key disciplines of mathematics linear algebra calculus and geometry needed in the undergraduate physics curriculum Its leitmotiv is that success in learning these subjects depends on a good balance between theory and practice Reflecting this belief mathematical foundations are explained in pedagogical depth and computational methods are introduced from a physicist s perspective and in a timely manner This original approach presents concepts and methods as inseparable entities facilitating in depth understanding and making even advanced mathematics tangible The book guides the reader from high school level to advanced subjects such as tensor algebra complex functions and differential geometry It contains numerous worked examples info sections providing context biographical boxes several detailed case studies over 300 problems and fully worked solutions for all odd numbered problems An online solutions manual for all even numbered problems will be made available to instructors **The Encyclopaedia and Dictionary of Education** Foster Watson, 1922

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