

# 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:

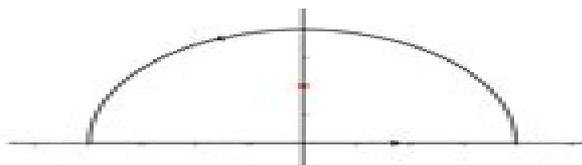
- Complex analysis:

- 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

**Sadri Hassani**



## **Introduction To Mathematical Physics Methods Concepts:**

**Introduction to Mathematical Physics** Chun Wa Wong, 2013-01-24 Introduction to Mathematical Physics explains why and how mathematics is needed in describing physical events in space It helps physics undergraduates master the mathematical tools needed in physics core courses It contains advanced topics for graduate students short tutorials on basic mathematics and an appendix on Mathematica

*Introduction to Mathematical Physics* Chun Wa Wong, 1991 Designed as a reference as well as a junior or senior level textbook this book is designed to help physics undergraduates acquire an appreciation of the mathematical basis of physical theories and achieve the expected level of competence in mathematical manipulations It comprises topics prerequisite to the study of the standard undergraduate courses in physics and topics for advanced students including vector calculus matrices and Fourier series and transforms

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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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**The Best Books for Academic Libraries: Science, technology, and agriculture** ,2002 **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 *Mathematical Methods for Physics and Engineering* Mattias Blennow,2018-01-03 Suitable for advanced undergraduate and graduate students this new textbook contains an introduction to the mathematical concepts used in physics and engineering The entire book is unique in that it draws upon applications

from physics rather than mathematical examples to ensure students are fully equipped with the tools they need This approach prepares the reader for advanced topics such as quantum mechanics and general relativity while offering examples problems and insights into classical physics The book is also distinctive in the coverage it devotes to modelling and to oft neglected topics such as Green s functions *Catalog of Copyright Entries. Third Series* Library of Congress. Copyright Office,1977 **Mathematical Methods in the Physical Sciences** Mary L. Boas,2005-07-22 Now in its third edition Mathematical Concepts in the Physical Sciences provides a comprehensive introduction to the areas of mathematical physics It combines all the essential math concepts into one compact clearly written reference *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* *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 **College of Literature, Science, and the Arts** University of Michigan. College of Literature, Science, and the Arts,1923

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