

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:

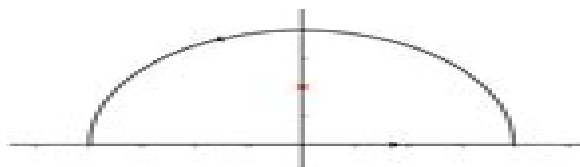
- Complex analysis:

- 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

Daniel F McAuley



Introduction To Mathematical Physics Methods Concepts:

Unveiling the Energy of Verbal Artistry: An Psychological Sojourn through **Introduction To Mathematical Physics Methods Concepts**

In some sort of inundated with displays and the cacophony of immediate interaction, the profound energy and mental resonance of verbal artistry usually fade in to obscurity, eclipsed by the constant assault of sound and distractions. However, nestled within the lyrical pages of **Introduction To Mathematical Physics Methods Concepts**, a fascinating work of literary elegance that pulses with fresh thoughts, lies an wonderful journey waiting to be embarked upon. Published by a virtuoso wordsmith, that magical opus courses readers on an emotional odyssey, delicately exposing the latent potential and profound impact stuck within the elaborate web of language. Within the heart-wrenching expanse of the evocative examination, we shall embark upon an introspective exploration of the book is key subjects, dissect its interesting publishing design, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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