



A Course in Mathematical Methods for Physicists

Russell L. Herman

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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 approach that emphasizes physical applications of the mathematics.?

The book offers:

- A quick review of mathematical prerequisites, proceeding to applications of differential equations and linear algebra
- Classroom-tested explanations of complex and Fourier analysis for trigonometric and special functions
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- Sections on nonlinear dynamics, variational calculus, numerical solutions of differential equations, and Green's functions

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