



Mathematical Methods for Physicists, Seventh Edition: A Comprehensive Guide

By George B. Arfken, Hans J. Weber, Frank E. Harris

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Editorial Review

Review

"...a thorough handbook about mathematics that is useful in physics."--**MAA.org**, *Mathematical Methods for Physicists, 7th Edition*

"This volume is a great collection of essential mathematical tools and techniques used to solve problems in physics, very useful to any student of physics or research professional in the field. It is concentrated to problem-solving art and offers a large amount of problems and exercises."--**Zentralblatt MATH 1239**

From the Back Cover

In its seventh 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, all-inclusive text retains the strong features of the sixth edition while providing a more careful balance of explanation, theory, and examples. The book's improved focus and clarity will assist students throughout their academic careers and serve as an invaluable resource to professors and scientists in their professional careers.

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- New Mathematical Preliminaries chapter to define and develop the required background
- Unified presentation of the algebra of vector spaces and angular momentum
- New chapter on Green's functions
- Extended discussion of partial differential equations
- Expanded coverage of mathematical statistics
- Thorough treatment of contour integration
- More systematic treatment of orthogonal polynomials

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Lizabeth Melgar:

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