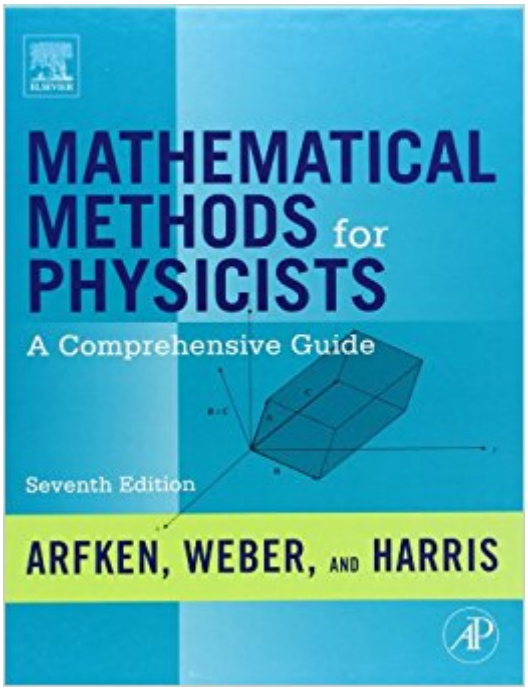
Mathematical Methods For Physicists, Seventh Edition: A Comprehensive Guide



Synopsis

Now inÃ Â its 7th 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 text provides mathematical relations and their proofs essential to the study of physics and related fields. While retaining theÃ Â key features of the 6th edition, the new edition provides a more careful balance of explanation, theory, and examples. Taking a problem-solving-skills approach to incorporating theorems with applications, the book's improved focus will help students succeed throughout their academic careers and well into their professions. Some notable enhancements include more refined and focused content in important topics, improved organization, updated notations, extensive explanations and intuitive exercise sets, a wider range of problem solutions, improvement in the placement, and a wider range of difficulty of exercises.Revised and updated version of the leading text in mathematical physicsFocuses on problem-solving skills and active learning, offering numerous chapter problemsClearly identified definitions, theorems, and proofs promote clarity and understanding New to this edition: Improved modular chaptersNew up-to-date examplesMore intuitive explanations

Book Information

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Customer Reviews

"...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

Frank E. Harris was awarded his A. B. (Chemistry) from Harvard University in 1951 and his Ph.D. (Physical Chemistry) from University of California in 1954. The author of 244 research publications and multiple books, Dr. Harris has been a Professor of Physics and Chemistry, University of Utah and Resident Adjunct Professor of Chemistry, Quantum Theory Project, University of Florida. He served on the Editorial Board of the International Journal of Quantum Chemistry, and has been named a Fellow for both the American Institute of Chemists and the American Physical Society.

Graduate student in physics. Studying Green’s functions is slippery. But here is a book that will allow you to trace far enough down the rabbit hole to the very roots of a subject. There are enough examples for sure, and as often as possible the authors discuss information in the context of physical phenomena. Relations of Green’s functions to electrostatics is made, and a brief discussion is done on the role they play in the scattering problems of quantum mechanics ie the Born Approximation. Must have. BUY IT!

Made me wanna cry, but it works.

I first used Arfken’s book in graduate school - 1970. Great tool. Superb service. No problems.

It is a comprehensive book for advanced engineering book.

This book was required for one of my mathematics classes, and while it is a decent text, it could be far better. It seems to almost be intended as a desk reference for people who have already completed their degrees rather than as a textbook for those who are learning the material for the first time. With some patience and a fair amount of time, there is a lot you can learn from this text, though.

very good!!!

7th edition of a classic, with, in the words of the authors, "a substantial and detailed revision".of the 6th edition. Specially improved by the new chapters on vector spaces, Green’s functions and angular momentum, and, last but not least, the inclusion of the dilogarithm special function. The

on-line material at [...] supplements the printed text. A basic technical reference for all future and present scientists and teachers.

Period.

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