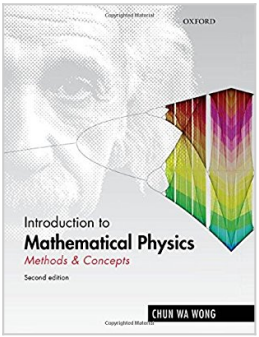

Introduction to Mathematical Physics: Methods & Concepts

By Chun Wa Wong

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Mathematical physics provides physical theories with their logical basis and the tools for drawing conclusions from hypotheses. Introduction to Mathematical Physics explains to the reader why and how mathematics is needed in the description of physical events in space. For undergraduates in physics, it is a classroom-tested textbook on vector analysis, linear operators, Fourier series and integrals, differential equations, special functions and functions of a complex variable. Strongly correlated with core undergraduate courses on classical and quantum mechanics and electromagnetism, it helps the student master these necessary mathematical skills. It contains advanced topics of interest to graduate students on relativistic square-root spaces and nonlinear systems. It contains many tables of mathematical formulas and references to useful materials on the Internet. It includes short tutorials on basic mathematical topics to help readers refresh their mathematical knowledge. An appendix on Mathematica encourages the reader to use computer-aided algebra to solve problems in mathematical physics.

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Editorial Review

Review

"This book gathers together in one place both standard and advanced topics on mathematical methods in physics. As such, it will be of use to both researchers and students in theoretical physics, as well as university-level lecturers who may wish to use it as a textbook. The second edition expands on the set of problems of the first edition, and includes new material on special relativity and chaos. It covers a broad spectrum of topics that will be of enormous use to theoretical physicists." -- Richard J. Szabo, School of Mathematical and Computer Sciences, Heriot-Watt University

About the Author

Wong is a theoretical physicist educated at UCLA and Harvard. He has worked in Copenhagen, Princeton, Oxford, and Saclay (near Paris). He has been at UCLA since 1969. He was a Sloan research Fellow, and is a fellow of the American Physical Society. His main interest is in theoretical physics.

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