

Mathematical Methods For Geophysics And Space Physics

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Mathematical Methods For Geophysics And Space Physics



[Mathematical Methods For Geophysics And Space Physics](#)

An essential textbook on the mathematical methods used in geophysics and space physics. Graduate students in the natural sciences—including not only geophysics and space physics but also atmospheric and planetary physics, ocean sciences, and astronomy—need a broad-based mathematical toolbox to facilitate their research.

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The underlying theory for geophysics, planetary physics, and space physics requires a solid understanding of many of the methods of mathematical physics as well as a set of specialized topics that are integral to the diverse array of real-world problems that we seek to understand.

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"Newman" — 2016/2/8 — 17:00 — page ix — #9 Preface Graduate students in the earth sciences, particularly those in geophysics and atmospheric, oceanographic, planetary, and

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Once upon a time textbooks on mathematical methods were focused almost entirely on physics and engineering. Of these perhaps the best-known examples are Courant and Hilbert's *Methods of Mathematical Physics* and Morse and Feshbach's *Methods of Theoretical Physics*. Primary topics included differential and integral equations, the calculus of variations and special functions.

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