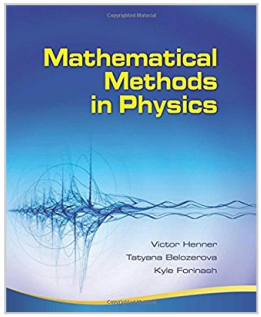

Mathematical Methods in Physics: Partial Differential Equations, Fourier Series, and Special Functions

By Victor Henner, Tatyana Belozerova, Kyle Forinash

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This book is a text on partial differential equations (PDEs) of mathematical physics and boundary value problems, trigonometric Fourier series, and special functions. This is the core content of many courses in the fields of engineering, physics, mathematics, and applied mathematics. The accompanying software provides a laboratory environment that allows the user to generate and model different physical situations and learn by experimentation. From this standpoint, the book along with the software can also be used as a reference book on PDEs, Fourier series and special functions for students and professionals alike.

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Editorial Review

Review

In comparison with typical introductions to partial differential equations, the book and attached software are significantly more detailed. It explains various examples of physical problems and solves related partial differential equations under different types of boundary conditions. The authors do more with special functions and carry out examples of Fourier analysis using these functions. The book, along with the software, can also be considered as a reference book on PDEs, Fourier series and some of the special functions for students and professionals. As a text, this book can be used in an advanced course on mathematical physics (or related courses) for advanced students of engineering, physics, mathematics, and applied mathematics.
?Soheila Emamyari and Mehdi Hassani, *MAA Reviews*, November 2009

[Henner, Forinash, and Belozerova] address the main topics of many courses in mathematical physics within the fields of engineering, physics, mathematics, and applied mathematics. The texbook and accompanying software are significantly more detailed than typical introductions to partial differential equations, they say, and provide examples on setting up physical problems as mathematical ones, solving partial differential equations under different types of boundary conditions, working with special functions, and carrying out a Fourier analysis using these functions. The software provides a simple interface, and does not require students to learn a programming language.
?*Book News Inc.*, September 2009

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