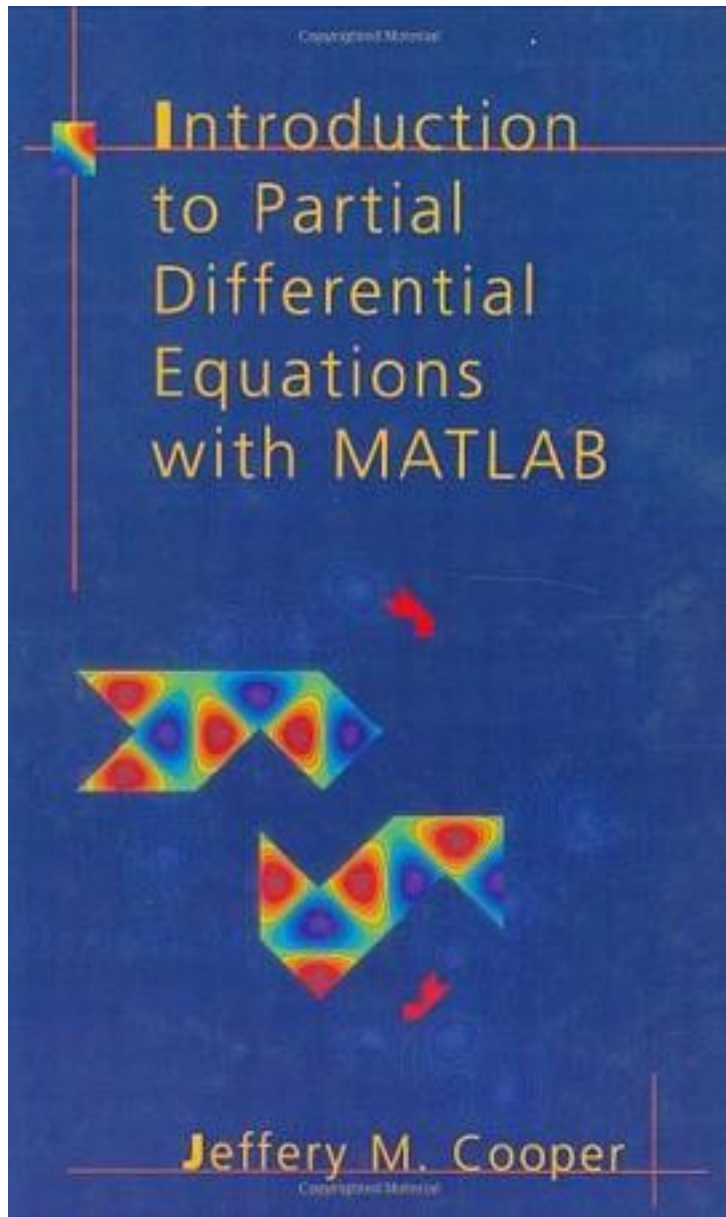


Introduction to Partial Differential Equations with MATLAB



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The subject of partial differential equations has an unchanging core of material but is constantly expanding and evolving. "Introduction to Partial Differential Equations with MATLAB" is a careful integration of traditional core topics with modern topics, taking full advantage of the computational power of MATLAB to enhance the learning experience. This advanced text/reference is an introduction to partial differential equations covering the traditional topics within a modern context. To provide an up-to-date treatment, techniques of numerical computation have been included with carefully selected nonlinear topics, including nonlinear first order equations. Each equation studied is placed in the appropriate physical context. The analytical aspects of solutions are discussed in an integrated fashion with extensive examples and exercises, both analytical and computational. The book is excellent for classroom use and can be used for self-study purposes. Topic and features of this title include: nonlinear equations including nonlinear conservation laws; dispersive wave equations and the Schrodinger equation; numerical methods for each core equation including finite difference methods, finite element methods, and the fast Fourier transform; and, extensive use of MATLAB programs in exercise sets. MATLAB m files for numerical and graphics programs available by ftp from this web site. This text/reference is an excellent resources designed to introduce advanced students in mathematics, engineering and sciences to partial differential equations. It is also suitable as a self-study resource for professionals and practitioners.

作者介绍:

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