Partial Differential Equations & Boundary Value Problems with Maple V

George A. Articolo

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Partial Differential Equations & Boundary Value Problems with Maple V George A. Articolo George Articulo covers all the material found in traditional partial differentiation equations and boundary value courses in this textbook. Its unique approach allows students to learn the mathematics first, then use Maple graphics capabilities to visualize both static and animated behavior of the solution. The book provides many example problems using commands that render two- or three-dimensional animated graphics. The author focuses on the natural union between partial differential equations and a powerful computational language such as Maple.
* Assumes no previous experience with *Maple V*; provides a quick review of the language with some simple commands needed to get started and a quick review of linear algebra
* Includes a review material in linear algebra and ordinary differential equations, and their contribution in solving partial differential equations
* Includes an early introduction to Sturm-Liouille boundary problems and generalized eigenfuction expansions
* Numerous example problems in both one and two spatial dimensions, in both the rectangular and cylindrical coordinate systems; an abundant array of exercises problems at the end of each chapter
* CD-ROM enclosed allows for rapid reader involvement, through interaction with real-time animation's of solutions of partial differential equations.

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