Advanced Mathematics and Mechanics Applications Using MATLAB, Second Edition

Howard B. Wilson, Louis H. Turcotte

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The second edition of this bestselling book by Drs. Wilson and Turcotte uses MATLAB to analyze various applications in mathematics and mechanics. This modern programming environment is an excellent alternative to FORTRAN. It is an interactive environment for technical computing, and includes a high level programming language and simple graphics commands facilitating two- and three-dimensional data presentation.

The applications emphasize solutions of linear and nonlinear differential equations. Linear partial differential equations and linear matrix differential equations are analyzed using eigenfunctions and series solutions. All the programs are contained on an accompanying diskette, which is organized with directories corresponding to different chapters. A group of repeatedly used functions, such as those for spline interpolation and interactive data input, comprises a separate utility library.

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