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Although traditional in its coverage of basic topics of ODEs, A Course in Ordinary Differential Equations is one of the first texts to provide relevant computer code and instruction in MATLAB, Mathematica, and Maple that will prepare students for further study in their fields.

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A Second Course in Elementary Differential Equations

28 Calculus of Matrix-Valued Functions of a Real Variable In establishing the

existence result for second and higher order linear differential equations one transforms the equation into a linear system and tries

Book Excerpt: Designed as a text for both under and postgraduate students of mathematics and engineering, A Course in Ordinary Differential Equations deals with theory and methods of solutions as well as applications of ordinary differential equations. The treatment is lucid and gives a detailed account of Laplace transforms and their applications, Legendre and Bessel functions, and covers all the important numerical methods for differential equations.

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