



A Course in Ordinary Differential Equations, Second Edition (2nd Revised edition)

By Randall J. Swift, Stephen A. Wirkus

Taylor & Francis Inc. Hardback. Book Condition: new. BRAND NEW, A Course in Ordinary Differential Equations, Second Edition (2nd Revised edition), Randall J. Swift, Stephen A. Wirkus, A Course in Ordinary Differential Equations, Second Edition teaches students how to use analytical and numerical solution methods in typical engineering, physics, and mathematics applications. Lauded for its extensive computer code and student-friendly approach, the first edition of this popular textbook was the first on ordinary differential equations (ODEs) to include instructions on using MATLAB(R), Mathematica(R), and Maple(TM). This second edition reflects the feedback of students and professors who used the first edition in the classroom. New to the Second Edition * Moves the computer codes to Computer Labs at the end of each chapter, which gives professors flexibility in using the technology * Covers linear systems in their entirety before addressing applications to nonlinear systems * Incorporates the latest versions of MATLAB, Maple, and Mathematica * Includes new sections on complex variables, the exponential response formula for solving nonhomogeneous equations, forced vibrations, and nondimensionalization * Highlights new applications and modeling in many fields * Presents exercise sets that progress in difficulty * Contains color graphs to help students better understand crucial concepts...



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