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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.

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equations, existence theorems, singular solutions, and linear equations of arbitrary order.

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Course Description. Differential Equations are the language in which the laws of nature are expressed. Understanding properties of solutions of differential equations is fundamental to much of contemporary science and engineering. Ordinary differential equations (ODE's) deal with functions of one variable, which can often be thought of as time.

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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

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