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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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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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A First Course in Ordinary Differential Equations 4 Contents Contents 1 Linearity and solutions 11

1.1 Solutions of differential equations 11 1.1.1 Exercises 28 1.2 The solution space 32

1.2.1 Exercises 36 1.3 Appendix to Chapter 1 38 2 First-order differential equations 41 2.1

Introduction: the initial-value problem 41

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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.