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150 CHAPTER 4 HIGHER-ORDER DIFFERENTIAL EQUATIONS As an immediate consequence of (3) and the fact that differentiation can be done term by term, a polynomial (4) can be annihilated by finding an operator that annihilates the highest power of x

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Elementary Differential Equations with Boundary Value Problems is written for students in science, engineering, and mathematics who have completed calculus through partial differentiation. If your syllabus includes Chapter 10 (Linear Systems of Differential Equations), your students should have some preparation in linear algebra.

DIFFERENTIAL EQUATIONS

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used textbook "Elementary differential equations and boundary value problems" by Boyce & DiPrima (John Wiley & Sons, Inc, Seventh Edition, c 2001) Many of the examples presented in these notes may be found in this book. The material of Chapter 7 is adapted from the textbook "Nonlinear dynamics and chaos" by Steven

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12 SAMPLE APPLICATION OF DIFFERENTIAL EQUATIONS 3 Sometimes in attempting to solve a de, we might perform an irreversible step. This might introduce extra solutions. If we can get a short list which contains all solutions, we can then test out each one and throw out the invalid ones. The ultimate test is this: does it satisfy the equation?

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and has pursued research in the areas of ordinary differential equations, asymptotic analysis, perturbation theory, and cosmology. Dr Lewis also contributed an essay to the fifth edition of A First Course in Differential Equations by Dennis G Zill.

Ordinary Differential Equations-Lecture Notes

ential equations, or shortly ODE, when only one variable appears (as in equations (11)-(16)) or partial differential equations, shortly PDE, (as in (17)). From the point of view of the number of functions involved we may have one function, in which case the equation is called simple, or we may have several.

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viii A First Course in Differential Equations Third Edition equations; equilibrium solutions, stability and bifurcation. Other special types of equations, for example, Bernoulli, exact, and homogeneous equations, are covered in the Exercises with generous guidance. Many applica-

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related topics Topics include first order differential equations, linear differential equations of higher orders, systems of differential equations, Laplace transforms, numerical methods, and applications Text: A First Course in Differential Equations - The Classic Fifth Edition, DG Zill, Brooks/Cole (2001) Possible Topics: Logic

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- The series Solutions of Linear Equations
- Systems of Linear Differential Equations (optional) VI POSSIBLE TEXTS AND REFERENCES: Differential Equations with Boundary-Value Problems, 9th edition, by Dennis G Zill and Warren S Wright A first Course in Differential Equations, The Classic Fifth Edition, by Dennis G Zill, Brooks/Cole

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