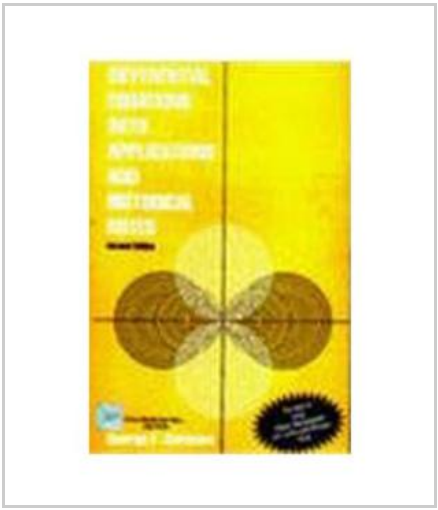

Differential Equations with Applications and Historical Notes (Second Edition)

By George Simmons

Tata McGraw-Hill Education Pvt. Ltd., 2003. Softcover. Book Condition: New. 2nd edition. A revision of a much-admired text distinguished by the exceptional prose and historical/mathematical context that have made Simmons` books classics. The Second Edition includes expanded coverage of Laplace transforms and partial differential equations as well as a new chapter on numerical methods. Table of contents Preface to the Second Edition Preface to the First Edition Suggestions for the Instructor PART 1 THE NATURE OF DIFFERENTIAL EQUATIONS. SEPARABLE EQUATIONS Chapter 1. Introduction Chapter 2. Gemeral Remarks on Solutions Chapter 3. Families of Curves. Orthogonal Trajectories Chapter 4. Growth, Decay, Chemical Reactions, and Mixing Chapter 5. Falling Bodies and Other Motion Problems Chapter 6. The Brachistochrone. Fermat and the Bernoullis PART 2 FIRST ORDER EQUATIONS Chapter 7. Homogeneous Equations Chapter 8. Exact Equations Chapter 9. Integrating Factors Chapter 10. Linear Equations Chapter 11. Reduction of Order Chapter 12. The Hanging Chain. Pursuit Curves Chapter 13. Simple Electric Circuits PART 3 SECOND ORDER LINEAR EQUATIONS Chapter 14. Introduction Chapter 15. The General Solution of the Homogeneous Equation Chapter 16. The Use of a Known Solution to Find Another Chapter 17. The Homogeneous Equation with Constant Coefficients Chapter 18. The Method of...

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