



A Workbook for Differential Equations (Paperback)

By Bernd S. W. Schroder

John Wiley and Sons Ltd, United States, 2010. Paperback. Condition: New. 1. Auflage. Language: English . This book usually ship within 10-15 business days and we will endeavor to dispatch orders quicker than this where possible. Brand New Book. An accessible and hands-on approach to modeling and predicting real-world phenomena using differential equations A Workbook for Differential Equations presents an interactive introduction to fundamental solution methods for ordinary differential equations. The author emphasizes the importance of manually working through computations and models, rather than simply reading or memorizing formulas. Utilizing real-world applications from spring-mass systems and circuits to vibrating strings and an overview of the hydrogen atom, the book connects modern research with the presented topics, including first order equations, constant coefficient equations, Laplace transforms, partial differential equations, series solutions, systems, and numerical methods. The result is a unique guide to understanding the significance of differential equations in mathematics, science, and engineering. The workbook contains modules that involve readers in as many ways as possible, and each module begins with Prerequisites and Learning Objectives sections that outline both the skills needed to understand the presented material and what new skills will be obtained by the conclusion of the module. Detailed...



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