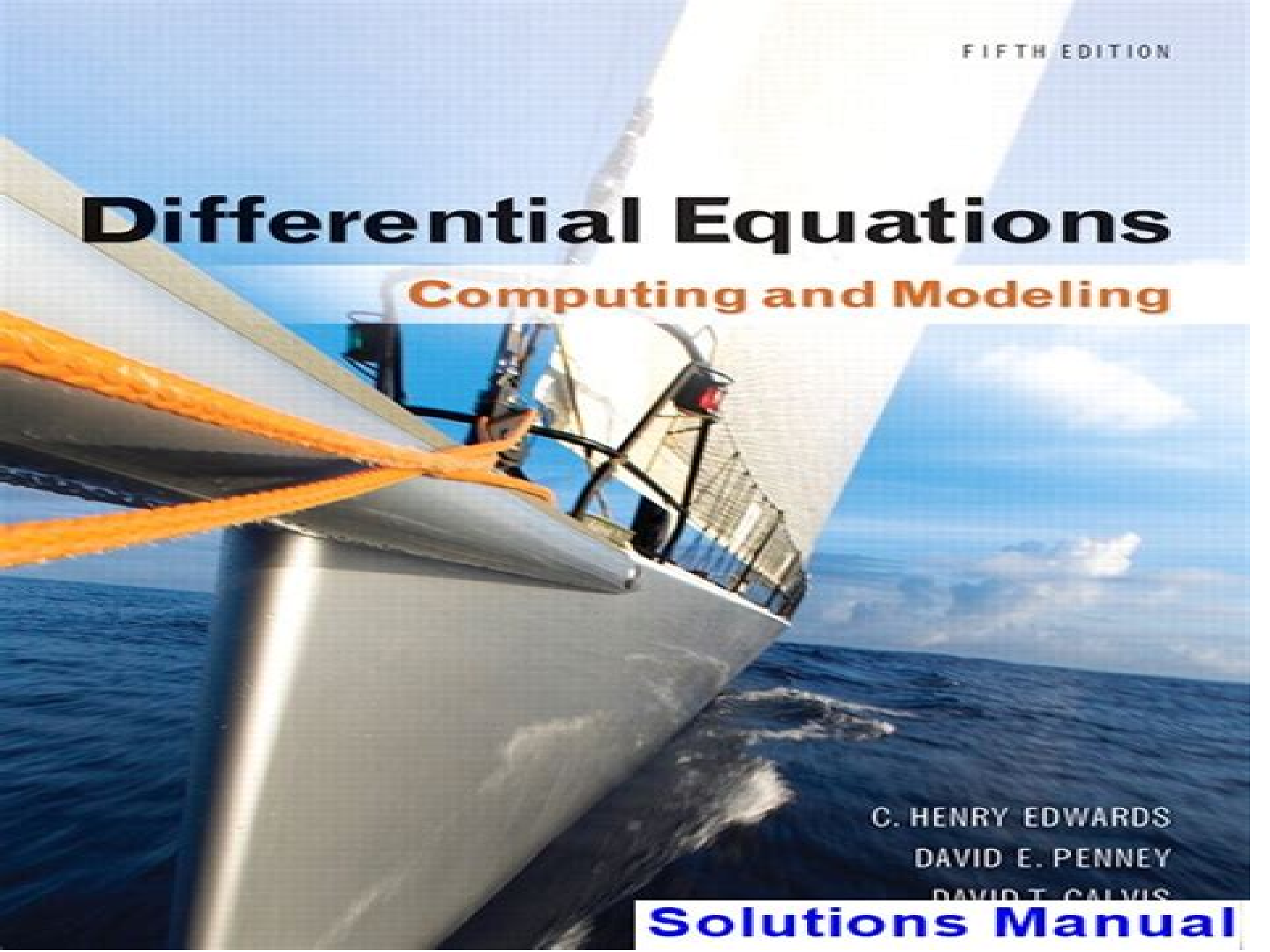




FIFTH EDITION

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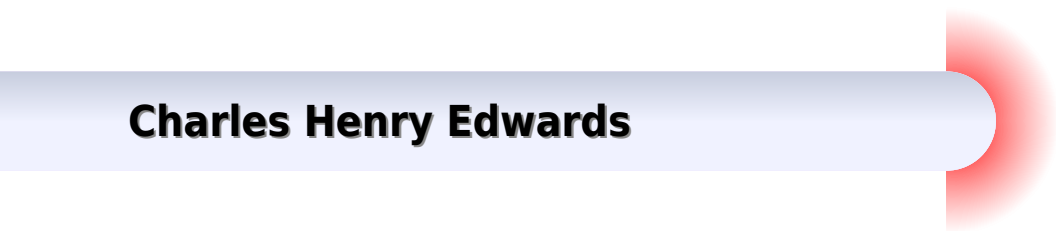
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Differential Equations Charles Henry Edwards, David E. Penney, 2008 This practical book reflects the new technological emphasis that permeates differential equations including the wide availability of scientific computing environments like Maple Mathematica and MATLAB it does not concentrate on traditional manual methods but rather on new computer based methods that lead to a wider range of more realistic applications The book starts and ends with discussions of mathematical modeling of real world phenomena evident in figures examples problems and applications throughout the book For mathematicians and those in the field of computer science and engineering

Mathematics for Modeling and Scientific Computing Thierry Goudon, 2016-10-14 This book provides the mathematical basis for investigating numerically equations from physics life sciences or engineering Tools for analysis and algorithms are confronted to a large set of relevant examples that show the difficulties and the limitations of the most naive approaches These examples not only provide the opportunity to put into practice mathematical statements but modeling issues are also addressed in detail through the mathematical perspective

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