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Abstract

This textbook is intended for undergraduate and graduate students studying differential equations. It can be used by students in the departments of the School of Science (Mathematics, Physics, Materials Science), as well as the Polytechnic School (Mechanical Engineering, Electrical and Computer Engineering, Civil Engineering, Chemical Engineering). A concise and informative presentation of the theory of each chapter is provided, along with representative solved examples

and several exercises for students to solve. The Appendix contains a basic mathematical formulae list for the purposes of the study, as well as the answers to some of the unsolved exercises. We encourage readers (science and engineering students) to use computer programs (MATLAB, MAPLE, MATHEMATICA) to better understand the material. The textbook can also be used by researchers from other disciplines who are interested in understanding differential equations.

