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# Nonlinear Ordinary Differential Equations: Problems and Solutions

**A SOURCEBOOK FOR SCIENTISTS  
AND ENGINEERS**

D. W. Jordan  
P. Smith

**Nonlinear Ordinary Differential Equations Problems And  
Solutions A Sourcebook For Scientists And Engineers  
Oxford Texts In Applied And Engineering Mathematics**

**Dominic Jordan, Peter Smith**



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presents a basic introduction to the technically complex area of invariant one parameter Lie group methods and their use in solving differential equations The book features discussions on ordinary differential equations first second and higher order in addition to partial differential equations linear and nonlinear Each chapter contains worked examples with several problems at the end answers to these problems and hints on how to solve them are found at the back of the book Students and professionals in mathematics science and engineering will find this book indispensable for developing a fundamental understanding of how to use invariant one parameter group methods to solve differential equations **Nonlinear**

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Differential Equations by Continuous Groups George Emanuel, 2000-11-29 Written by an engineer and sharply focused on practical matters this text explores the application of Lie groups to solving ordinary differential equations ODEs Although the mathematical proofs and derivations are de emphasized in favor of problem solving the author retains the conceptual basis of continuous groups and relates the theory to problems in engineering and the sciences The author has developed a number of new techniques that are published here for the first time including the important and useful enlargement procedure The author also introduces a new way of organizing tables reminiscent of that used for integral tables These new methods and the unique organizational scheme allow a significant increase in the number of ODEs amenable to group theory solution Solution of Ordinary Differential Equations by Continuous Groups offers a self contained treatment that presumes only a rudimentary exposure to ordinary differential equations Replete with fully worked examples it is the ideal self study vehicle for upper division and graduate students and professionals in applied mathematics engineering and the sciences

*Ordinary Differential Equations* Raza Tahir-Kheli, 2019-02-05 This textbook describes rules and procedures for the use of Differential Operators DO in Ordinary Differential Equations ODE The book provides a detailed theoretical and numerical description of ODE It presents a large variety of ODE and the chosen groups are used to solve a host of physical problems Solving these problems is of interest primarily to students of science such as physics engineering biology and chemistry Scientists are greatly assisted by using the DO obeying several simple algebraic rules The book describes these rules and to help the reader the vocabulary and the definitions used throughout the text are provided A thorough description of the relatively straightforward methodology for solving ODE is given The book provides solutions to a large number of associated problems ODE that are integrable or those that have one of the two variables missing in any explicit form are also treated with solved problems The physics and applicable mathematics are explained and many associated problems are analyzed and solved in detail Numerical solutions are analyzed and the level of exactness obtained under various approximations is discussed in detail *Lectures, Problems And Solutions For Ordinary Differential Equations (Second Edition)* Yuefan Deng, 2017-08-11 This unique book on ordinary differential equations addresses practical issues of composing and solving differential equations by demonstrating the detailed solutions of more than 1 000 examples The initial draft was used to teach more than 10 000 advanced undergraduate students in engineering physics economics as well as applied mathematics It is a good source for students to learn problem solving skills and for educators to find problems for homework assignments and tests The 2nd edition with at least 100 more examples and five added subsections has been restructured to flow more pedagogically

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