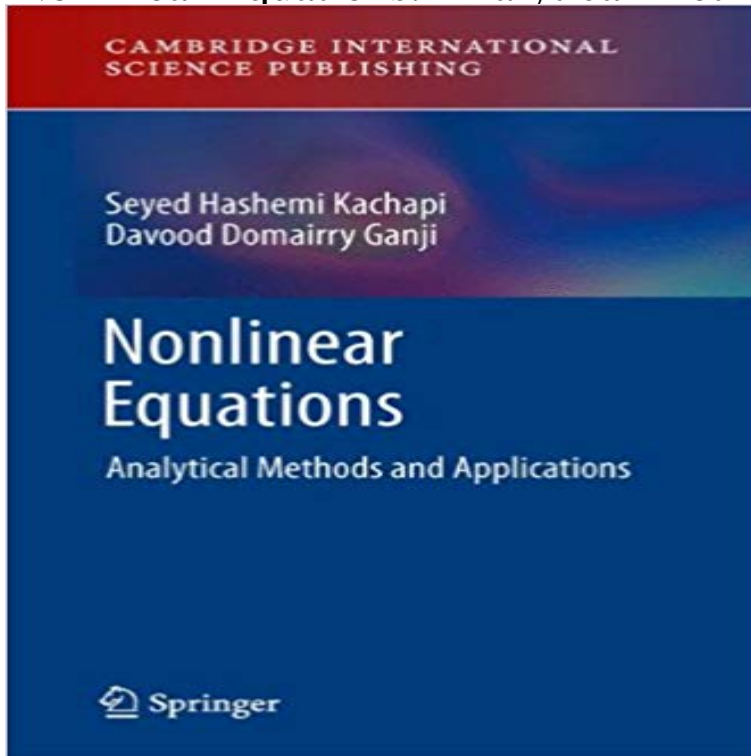


# Nonlinear Equations: Analytical Methods and Applications



The present text reflects developments in the literature on nonlinear systems, while retaining a reader-friendly presentation. It has been developed from problems on nonlinear differential equations given over several years in the nonlinear dynamics team at the Mechanical Department of Babol Noshirvani University of Technology. A large variety of applied processes in both linear and nonlinear forms for important nonlinear differential equations are covered, enabling readers to solve problems without needing to refer to other sources. An introduction to systems in the context of nonlinear differential equations is provided and is suitable for courses of varying emphasis. The chapters are designed to be self-contained so readers can easily navigate to the material of interest. Emphasis is given to direct applications of the subject matter, and will therefore be of particular interest to students of engineering, mathematics and the natural sciences. The most recent analytic methods and developments are included and over 300 references are given. In addition to discussing linear and nonlinear problems, demonstrated solutions are provided.

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