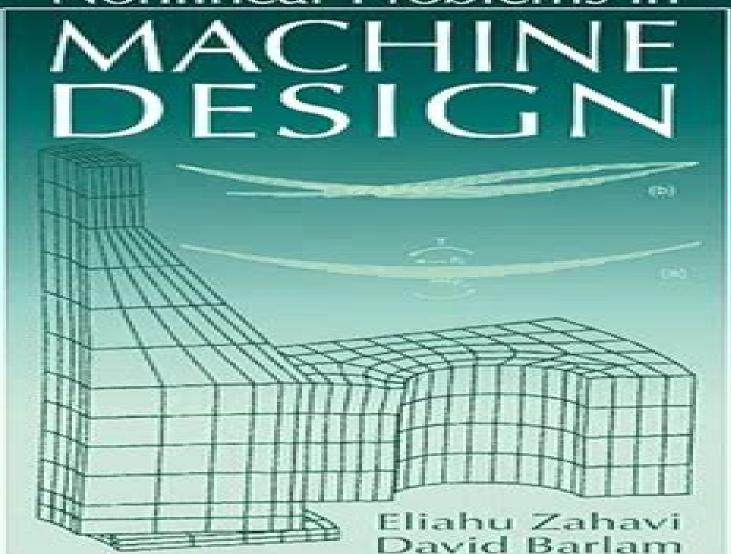
# Nonlinear Problems in



# **Nonlinear Problems In Machine Design**

**Huangqi Zhang** 

#### **Nonlinear Problems In Machine Design:**

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Machines Rui Araújo, José Camacho, 2020-09-09 Today switched reluctance machines SRMs play an increasingly important role in various sectors due to advantages such as robustness simplicity of construction low cost insensitivity to high temperatures and high fault tolerance They are frequently used in fields such as aeronautics electric and hybrid vehicles and wind power generation This book is a comprehensive resource on the design modeling and control of SRMs with methods that demonstrate their good performance as motors and generators Non-Linear Vibrations G. Schmidt, A. Tondl,1986-12-31 No detailed description available for Non Linear Vibrations Semantic Methods for Knowledge Management and Communication Radosław Katarzyniak Katarzyniak, Tzu-Fu Chiu, Chao-Fu Hong, Ngoc-Thanh Nguyen, 2011-08-04 The book consists of 31 chapters in which the authors deal with multiple aspects of modeling utilization and implementation of semantic methods for knowledge management and communication in the context of human centered computing It is assumed that the modern human centered computing requires the intensive application of these methods as well as effective integration with multiple techniques of computational collective intelligence The book is organized in four parts devoted to the presentation of utilization of knowledge processing in agent and multiagent systems application of computational collective intelligence to knowledge management models for collectives of intelligent agents and models and environments tailored directly to human centered computing All chapters in the book discuss theoretical and practical issues related to various models and aspects of computational techniques for semantic methods which are currently studied and developed in many academic and industry centers over the world The editors hope that the book can be useful for graduate and PhD students of computer science as well as for mature academics researchers and practitioners interested in developing of modern methods for representation processing and distribution of knowledge in the context of human centered computing and by means of computer based information systems It is the hope of the editors that readers of this volume can find in all chosen chapters many inspiring ideas and influential practical examples as well as use them in their current and Scientific and Technical Aerospace Reports ,1992 future work **Vibration Utilization Engineering** Bangchun Wen, Xian Li Huang, Yinong Li, Yimin Zhang, 2022-06-09 This book proposes Vibration Utilization Engineering using harmful vibrations in many cases for energy harvesting Scope of the book includes but not limited to linear and nonlinear system of vibrations waves sound wave and light wave wave motion and energy utilization the electric magnetic oscillation utilization in engineering the phenomena patterns and utilization of the vibrations in Nature and human social society It is all based on the theory of vibration utilization technology and equipment technological process linear and pseudo linear vibration nonlinear vibration This new subject branch is closely associated with numerus applications in industrial or agricultural production medical apparatus and equipment and daily life etc It could create significant economic and social benefits and provide significant values for society and excellent service for human life New Optimization Techniques in Engineering Godfrey C. Onwubolu, B. V. Babu, 2013-03-14 Presently general purpose optimization techniques such as Simulated Annealing and

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