



Nonlinear Problems in Machine Design

By Eliahu Zahavi, David Barlam

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Modern machine design challenges engineers with a myriad of nonlinear problems, among them fatigue, friction, plasticity, and excessive deformation. Today's advanced numerical computer programs bring optimal solutions to these complex problems within reach, but not without a trained and experienced overseer.

Nonlinear Problems in Machine Design provides that training and experience. It acquaints readers with the modern analytical methods of machine design and enables them to use those methods in daily applications. The authors first build the theoretical foundation, then focus on the application of the finite element method to machine design problems. They offer practical examples with solutions generated using both the ANSYS and MSC.NASTRAN finite element programs, demonstrating the reliability of the results, offering readers experience with the two most widely used programs in industry.

Developed through the authors' extensive knowledge of engineering theory and their experience in verifying the accuracy and applicability of computer generated solutions, this book helps ensure foolproof results when designing machine parts. Nonlinear Problems in Machine Design is unique in its focus, will prove equally valuable to students and practitioners, and appears destined to become a standard in its field.



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Nonlinear Problems in Machine Design By Eliahu Zahavi, David Barlam Bibliography

- Sales Rank: #8985781 in Books
- Published on: 2000-12-28
- Original language: English
- Number of items: 1
- Dimensions: 9.50" h x 6.50" w x 1.25" l, 1.58 pounds
- Binding: Hardcover
- 440 pages

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