



# Advanced Analysis of Machine Elements: Finite Element Solutions of Nonlinear Problems

*Eliahu Zahavi, David M. Barlam*

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One of the main concerns in building advanced machinery is the design of machine components. The only way to ensure that criteria for life expectancy and stress limits are met is to base the design on precise analysis. Advanced Design of Machine Elements presents selected complex design problems, such as fatigue problems caused by varying loads and problems with nonlinear materials and geometric properties including contact. This book provides detailed solutions to these problems along with theoretical explanations of the applied techniques. Various chapters examine elasticity, fatigue, plasticity, and vibration fundamentals, and a special chapter introduces the Finite Element method.

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