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While there are many books about Finite Element Methods, this is among the first volume devoted to the application of FEM in spring design. It has been compiled by the working group on Finite Element Analysis of Springs, sponsored by the Japan Society of Spring Research. The monograph considers the wide spectrum of spring shapes and functions, enabling readers to use FEM to optimize designs for even the most advanced engineering cases. This book provides the theoretical background and state-of-the-art methodologies for numerical spring analysis. It also employs and explains many real-world design examples, calculated by commercial software and then compared with experimental data, to illustrate the applicability of FEM to spring analysis. Engineers already dealing with spring design will find this an excellent means of learning how to use FEM in their work, while others will find here a helpful introduction to modern spring technology and design.