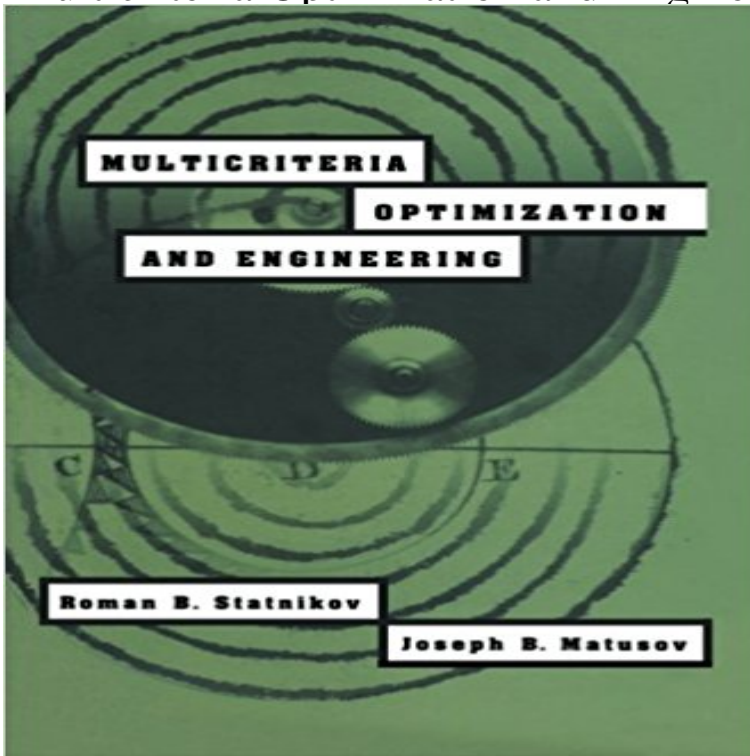


Multicriteria Optimization and Engineering (Volume 36)



method enables readers to:

- *efficiently design higher-quality, lower cost objects with less metal requirements, vibration and noise, and with lower dynamic loads and energy consumption
- *determine optimal solutions, regardless of the number of criteria involved, and to identify relationships among different criteria and between criteria and design variables
- *accurately account for discrepancies between theoretical and actual characteristics, using a special set of adequacy criteria
- *determine optimal design variables for complex finite element models

In addition, the book helps readers:

- *enhance the potential of the PSI method with theoretical investigations and algorithms for approximating the feasible solutions set and Pareto optimal set
- *facilitate proficient problem-solving by incorporating recently obtained results from the theory of uniformly distributed sequences
- *evaluate design procedures by observing examples ranging from machine tools and agricultural equipment to automobiles and aviation

This practical, in-depth treatment of multicriteria optimization and engineering is essential for engineers and designers working in research and development of manufacturing machines, mechanisms and structures. It is also an important text for students of applied mathematics, mechanical engineering, optimal control and operations research.

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