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Multicriteria Design

By Roman Statnikov

Springer Mrz 1999, 1999. Buch. Book Condition: Neu. 235x155x18 mm. This item is printed on demand - Print on Demand Titel. Neuware - This book presents the fundamentals of the Parameter Space Investigation method for the statement and solution of optimization problems, a powerful new tool for multicriteria optimization in engineering. Unlike the majority of other optimization techniques, the PSI method combines the formation of the set of feasible solutions, the sensitivity analysis of performance criteria, and optimization. The PSI method is original. It offers designers an instrument which enables the construction of the feasible solution set with allowance for any number of performance criteria, to select Edgeworth-Pareto optimal solutions which cannot be improved in all performance criteria simultaneously, to find relationships between different performance criteria and between the criteria and the design variables, and to correct the mathematical model of the object to be designed if necessary. A distinctive feature of this volume is that it contains a number of essays by leading specialists from various industries in which the PSI method has been successfully applied. The work is richly illustrated with numerous examples. Audience: This volume will be of interest to research workers and graduate students who work...



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