



Multiple Objective Optimization and Implications for Single Objective Optimization

By Jochen Gorski

Shaker Verlag Nov 2010, 2010. Buch. Condition: Neu. Neuware - Taking the right decisions is one of the main aspects in everyday life. If a decision has to be made with respect to only a single criterion, it is often quite simple to find a satisfactory solution for the problem. However, only in rare cases important decisions are influenced by a single criterion. Often several independent and conflicting aspects have to be taken into account. Based on these different criteria, one is faced with the problem to find the "best" alternative among many possible decisions. This idea leads to the concept of multiple objective optimization, where optimality of a feasible solution is defined based on the Pareto-concept. In more detail, a solution of such a problem is called efficient, when there does not exist any other solution that is as good as the given one in all considered criteria and strictly better in at least one criterion. While traditionally, methods from single objective optimization are used to determine efficient solutions of a given multiple objective problem, the reverse approach is taken in this book. In more detail, it is discussed how ideas from multiple objective optimization can be used to...



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