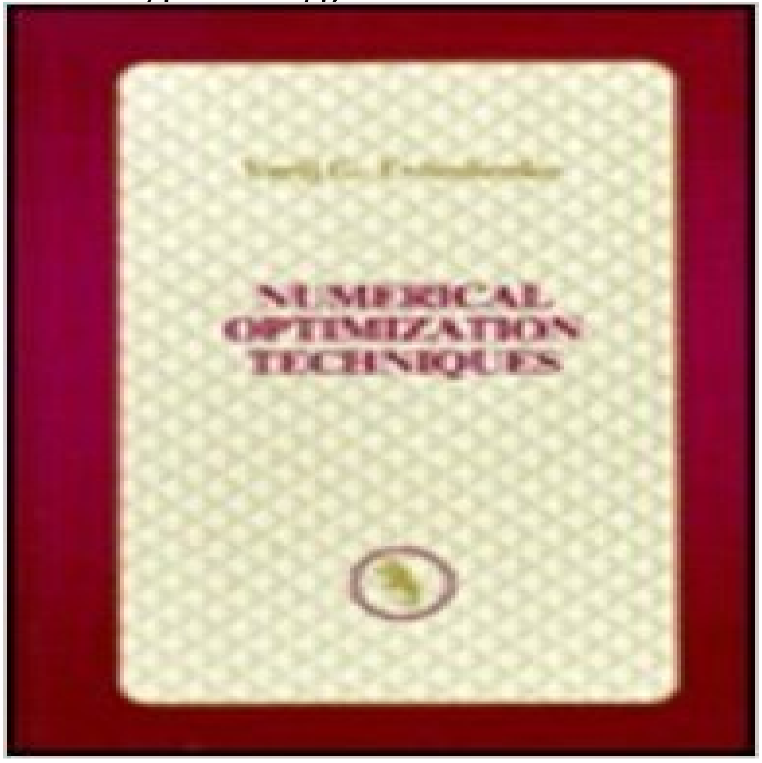
Numerical Optimization Techniques (Translations Series in Mathematics and Engineering)



The book of Professor Evtushenko describes both the theoretical foundations and the range of applications of many important methods for solving nonlinear programs. Particularly emphasized is their use for the solution of optimal control problems for ordinary differential equations. These methods were instrumented in a library of programs for an interactive system (DISO) at the Computing Center of the USSR Academy of Sciences, which can be used to solve a given complicated problem by a combination of appropriate methods in the interactive mode. Many examples show the strong as well the weak points of particular methods and illustrate the advantages gained by their combination. In fact, it is the central aim of the author to pOint out the necessity of using many techniques interactively, in order to solve more dif ficult problems. A noteworthy feature of the book for the Western reader is the frequently unorthodox analysis of many known methods in the great tradition of Russian mathematics. J. Stoer PREFACE Optimization methods are finding ever broader application in sci ence and engineering. Design engineers, automation and control systems specialists, physicists processing experimental data, eco nomists, as well as operations research specialists are beginning to employ them routinely in their work. The applications have in turn furthered vigorous development of computational techniques and engendered new directions of research. Practical implementa tion of many numerical methods of high computational complexity is now possible with the availability of high-speed large-memory digital computers.

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Evtushenko and a **Numerical Optimization Techniques (Translations Series in** SERIES IN DISCRETE MATHEMATICS AND OPTIMIZATION . textbooks on the subject with an emphasis on engineering design (e.g., [1] and [79]). However to provide a cookbook of the most recent numerical techniques for optimization. **Mathematical Modeling** Translations Series in Mathematics and Engineering. 1985. Numerical Optimization Techniques. Authors: Evtushenko, Yurij G. Editors: Stoer, Josef (Ed.) **9780911575071 - Numerical Optimization Techniques Translation** Optimization Toolbox provides solvers for linear, quadratic, integer, and nonlinear optimization problems. These algorithms solve constrained and unconstrained **Numerical Optimization Techniques (Translations series - AbeBooks** Numerical Optimization Techniques (Translations Series in Mathematics and Engineering) download .pdf by Yurij G. Evtushenko. 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