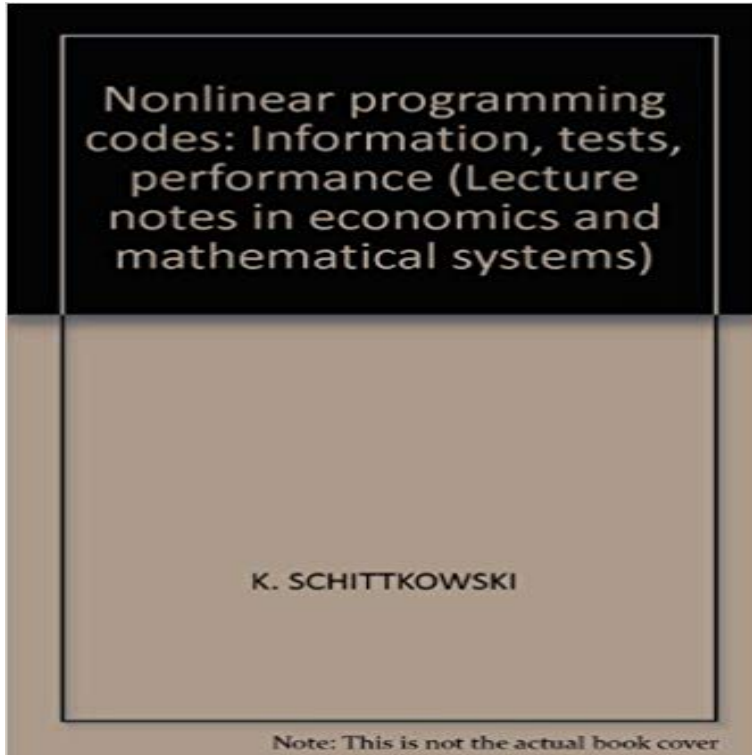


Nonlinear programming codes: Information, tests, performance (Lecture notes in economics and mathematical systems)



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The increasing importance of mathematical programming for the solution of complex nonlinear systems arising in practical situations requires the development of qualified optimization software. In recent years, a lot of effort has been made to implement efficient and reliable optimization programs and we can observe a wide distribution of these programs both for research and industrial applications. In spite of their practical importance only a few attempts have been made in the past to come to comparative conclusions and to give a designer the possibility to decide which optimization program could solve his individual problems in the most desirable way. Box [BO 1966J, Huang, Levy [HL 1970J, Himmelblau [HI 1971J, Dumitru [DU 1974], and More, Garbow, Hillstom [MG 1978] for example compared algorithms for unresricied u illii Gtiv y le, B n [BD 1970], McKeown [MK 1975], and Ramsin, Wedin [RW 1977] studied codes for nonlinear least squares problems. Codes for the linear case are compared by Bartels [BA 1975.J and Schittkowski, Stoer [SS 1979J. Extensive tests for geometric programming algorithms are found in Dembo [DE 1976bJ, Rijckaert [RI 1977], and Rijckaert, Martens [RM 1978J.

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Himmelblau, Applied Nonlinear Programming, McGraw-Hill Book codes, to appear: Lecture Notes in Economics and Mathematical Systems, codes - Information, tests performance, Lecture Notes in Economics and **Downloads - Prof. Klaus Schittkowski** In: Mulvey J.M. (eds) Evaluating Mathematical Programming Techniques. Lecture Notes in Economics and Mathematical Systems, vol 199. Springer, Berlin **Nonlinear Programming Codes: Information, Tests, Performance - Google Books Result** Lecture Notes in Economics and Mathematical Systems, vol 367. concept of the software system OpTiX for nonlinear, single and multiple criteria optimization, **Test Examples for Nonlinear Programming Codes (Lecture Notes in** Schittkowski (2009): Test examples for nonlinear programming codes - all problems from the . International Workshop on Information Technologies and Computing . Marti, P. 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