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More test examples for nonlinear programming codes. (English) Zbl 0658.90060

Lecture Notes in Economics and Mathematical Systems, 282. Berlin etc.: Springer-Verlag. V, 261 p.; DM 49.00 (1987).

A detailed description of 188 problems for testing nonlinear programming algorithms is presented. The considered types of objective functions are: linear (33 problems), quadratic (44), sum of squares (36), generalized polynomial (57), general (23). Among them 46 problems are unconstrained, 24 problems are with linear constraint functions, 54 with quadratic, 18 with generalized polynomials and 12 with general constraint functions. For 9 problems upper and lower bounds are presented.

Reviewer: [R.Lepp](#)

MSC:

- [90C30](#) Nonlinear programming
- [49M37](#) Numerical methods based on nonlinear programming
- [90-02](#) Research exposition (monographs, survey articles) pertaining to operations research and mathematical programming
- [65K05](#) Numerical mathematical programming methods

Cited in **140** Documents

Keywords:

[test problems](#)