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ON CLASSIFICATION OF STATIONARY POINTS IN NONLINEAR PROGRAMMING

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Problems with conditioned extremes of the form $\max\{F(x) \mid f_i(x) \leqslant a_i,\ i = 1, \ldots, m;\ \varphi(x) \leqslant b_k, b_k = 1, \ldots, n\}$ are examined.

The terminology used is that introduced by Altman, related to the method of admissible direction. After defining the notions of admissible direction, R-stationary point, regular direction, regular stationary point, the properties of the notions given in the definition are presented under the form of lemma.

The condition of regulartity is, in practice, difficult to verify in view of applying the method of the admissible direction. By means of the concepts introduced in the paper, the application of the method is made much easier.

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