Lucas Pun

INTRODUCTION À LA PRATIQUE DE L'OPTIMISATION

(An Introduction to the Optimization Practice)

Dunod, Paris, 1972

The development of optimization techniques is nowadays one of the main concerns of specialists in informatics, operational research and automation.

The American professor Lucas Pun has based his book on the leading idea of introducing some systematizing criteria for such optimization methods with a view to facilitate their application in practice.

The author describes statistical optimization techniques (Lagrange's multipliers method, linear programming, non-linear programming) dynamic optimization techniques (variational methods, dynamic programming, gradient methods), as well as a class of methods which seem to enable a solution to the problem of optimizing the dynamic processes, the so-called dynamic suboptimization methods.

The reader will meet throughout the book a large number of examples and remarks concerning the solution with the aid of the computer of certain problem entailing peculiar difficulties.

Each chapter is accompanied by mathematical addenda completing and developing the statements and proofs contained in the book.

Thus, this work is very useful for all who feel the need for a guide in the optimization theory.

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