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MATHEMATICAL PLANNING
OF
STRUCTURAL DECISIONS

by
JÁNOS KORNAI
*Computing Centre of the Hungarian
Academy of Sciences, Budapest*

with contributions by
THOMAS LITTLÉ and PÉTER WILLESEN

AUSGESONDERT



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Flaw Growth and Fracture John M. Barsom, 1977 **Flaw Growth and Fracture**, 1977 **Naval Research Logistics Quarterly**, 1968 **Computing Methods in Applied Sciences and Engineering, 1977. Third International Symposium, December 5-9, 1977, IRIA LABORIA, Institut de Recherche d'Informatique et d'Automatique R. Glowinski, J.L. Lions, 2006-11-15** *Optimization in Mechanics* P. Brousse, 2013-10-22 *Optimization in Mechanics* Problems and Methods investigates various problems and methods of optimization in mechanics The subjects under study range from minimization of masses and stresses or displacements to maximization of loads vibration frequencies and critical speeds of rotating shafts Comprised of seven chapters this book begins by presenting examples of optimization problems in mechanics and considering their application as well as illustrating the usefulness of some optimizations like those of a reinforced shell a robot and a booster The next chapter outlines some of the mathematical concepts that form the framework for optimization methods and techniques and demonstrates their efficiency in yielding relevant results Subsequent chapters focus on the Kuhn Tucker theorem and duality with proofs associated problems and classical numerical methods of mathematical programming including gradient and conjugate gradient methods and techniques for dealing with large scale problems The book concludes by describing optimizations of discrete or continuous structures subject to dynamical effects Mass minimization and fundamental eigenvalue problems as well as problems of minimization of some dynamical responses are studied This monograph is written for students engineers scientists and even self taught individuals Scientific and

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