Optimal design and control - proceedings of the Workshop on Optimal Design and Control, Blacksburg, Virginia, April 8-9, 1994

Birkhäuser - Optimal Design and Control: Proceedings of the Workshop on Optimal Design and Control Blacksburg, Virginia April 8

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Your list has reached the maximum number of items. The book is intended for researchers and graduate students working in structural, fluid, thermal and electromagnetic design and control, or in the design and implementation of optimization algorithms. One of the goals of the work shop was to include laboratory, industrial, and academic researchers so that anal yses, algorithms, implementations, and applications could all be well-represented in the talks; this interdisciplinary nature is reflected in these proceedings.

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The workshop was spon sored by the Air Force Office of Scientific Research through the Air Force Center for Optimal Design and Control CODAC at Virginia Tech.

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Thus, in many instances, systematic approaches using fully nonlin ear constraint equations are routinely used to solve control and optimization prob-lems, in some cases replacing ad-hoc or empirically based procedures.

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Table of ContentsMultilevel Algorithms for Nonlinear Optimization. The workshop was a gathering of engineers and mathematicians actively in-

volved in innovative research in control and optimization, with emphasis placed on problems governed by partial differential equations.

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The interdisciplinary nature of the workshop and the wide range of subdisciplines represented by the partici pants enabled an exchange of valuable information and also led to significant dis cussions about multidisciplinary optimization issues. The workshop was a gathering of engineers and mathematicians actively in volved in innovative research in control and optimization, with emphasis placed on problems governed by partial differential equations. Although many different applications such as metal forging, heat transfer, contact problems, structures and acoustics are considered in the volume, flow control plays a central role.

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Many algorithmic issues are addressed, including sensitivity analyses, novel optimization methods especially tailored for specific applications, multilevel methods and programming techniques.

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