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sponsored by the technical committee on structural design of the technical administrative committee on analysis and computation of the technical activities division of the structural engineering institute of asce this report documents the dramatic new developments in the field of structural optimization over the last two decades changes in both computational techniques and applications can be seen by developments in computational methods and solution algorithms the role of optimization during the various stages of structural design and the stochastic nature of design in relation to structural optimization topics include □ methods for discrete variable structural optimization □ decomposition methods in structural optimization □ state

of the art on the use of genetic algorithms in design of steel structures □conceptual design optimization of engineering structures □topology and geometry optimization of trusses and frames □evolutionary structural optimization □design and optimization of semi rigid framed structures □optimized performance based design for buildings □multi objective optimum design of seismic resistant structures and □reliability and cost oriented optimal bridge maintenance planning the book concludes with an extensive bibliography of journal papers on structural optimization published between 1987 and 1999

formulation of an optimal dynamic structural system design problem requires identification of design variables that describe the structural system a cost function that needs to be minimized and performance and safety constraints for the system the formulation of the problem depends upon the type of application and objectives to be achieved i e the shape the sizing or topology design problem specific design variable definition cost of function and constraints are dictated by the application this volume is a comprehensive treatment of the general methods involved in this broadly fundamental problem and provides essential techniques in specific but pervasive structural dynamic systems elements and their optimization

g i n rozvany asi director professor of structural design fb 10 essen university essen germany structural optimization deals with the optimal design of all systems that consist at least partially of solids and are subject to stresses and deformations this inte grated discipline plays an increasingly important role in all branches of technology including aerospace structural mechanical civil and chemical engineering as well as energy generation and building technology in fact the design of most man made objects ranging from space ships and long span bridges to tennis rackets and artificial organs can be improved considerably if human intuition is enhanced by means of computer aided systematic decisions in analysing highly complex structural systems in practice discretization is un avoidable because closed form analytical solutions are only available for relatively simple idealized problems to keep discretization errors to a minimum it is de sirable to use a relatively large number of elements modern computer technology enables us to analyse systems with many thousand degrees of freedom in the optimization of structural systems however most currently available methods are restricted to at most a few hundred variables or a few hundred active constraints

this book summarizes advances in a number of fundamental areas of optimization with application in engineering design the selection of the best or optimum design has long been a major concern of designers and in recent years interest has grown in applying mathematical optimization techniques to design of large engineering and industrial systems and in using the computer aided design packages with optimization capabilities which are now available

instrumentation and automatic control systems

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