



# **Shape and Layout Optimization of Structural Systems and Optimality Criteria Methods (CISM International Centre for Mechanical Sciences)**

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Shape and layout optimization represent some of the most useful but also most difficult classes of problems in structural design, which have been investigated in detail only during the last few years. *Shape optimization* is concerned with the optimal shape of boundaries of continua or of interfaces between two materials in composites. *Layout optimization* deals with the simultaneous optimization of the topology, geometry and cross-sectional sizes of structural systems. In spite of its complexity, layout optimization is a very rewarding task, because it results in much greater savings than the optimization of cross-sectional sizes only. Because of their important role in shape and layout optimization, the book also covers in detail new *optimality criteria methods*, which are capable of handling many thousand design variables and active design constraints. Shape and layout optimization is becoming an indispensable tool in the design of aeroplanes, space structures, cars, ships, building and civil engineering structures, power stations, chemical plants, artificial organs, sporting equipment, and all other solid systems where stresses and deformations play an important role.

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