



Computer Aided Optimum Design in Engineering XII (Wit Transactions on the Built Environment)

S. Hernandez

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Presenting the latest research discussed at the Twelfth International Conference on Computer Aided Optimum Design in Engineering, this book contains papers describing case studies in engineering; considering static, dynamic analysis and damage tolerance. Manufacturing and structural protection issues are discussed, as well as emergent applications in fields such as biomechanics. Contributions also include numerical methods and different optimization techniques. Nowadays, it is widely accepted that optimization techniques have much to offer to those involved in the design of new industrial products. The formulation of optimum design has evolved from the time it was purely an academic topic, unable to satisfy the requirement of real-life prototypes. The development of new algorithms, the improvement of others, the appearance of powerful commercial computer codes with easy-to-use graphical interfaces, and the revolution in the speed of computers have created a fertile field for the incorporation of optimization in the design process in various engineering disciplines. Topics covered include: Structural Optimization; Optimization in Biomechanics; Shape and Topology Optimization; Industrial Design Optimization Cases; Evolutionary Methods in Design Optimization; Multi-level Optimization; Multidisciplinary Optimization; Reliability Based Optimization; Material Optimization; Aerospace Structures; Applications in Mechanical and Car Engineering; New and Enhanced Formulations; Optimization Under Extreme Forces; Optimization in Aerodynamics; Optimization in Civil Engineering; Life Cost Optimization; Education Issues in Design Optimization; Commercial Software for Design Optimization.

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