



## Advances in Structural Optimization: Proceedings of the First US-Japan Joint Seminar on Structural Optimization Held in Conjunction with the Structures Congress XIV, Held in Chicago, Illinois, April 13, 1996

By Dan M. Frangopol, Franklin Y. Cheng

American Society of Civil Engineers. Hardback. Book Condition: new. BRAND NEW, Advances in Structural Optimization: Proceedings of the First US-Japan Joint Seminar on Structural Optimization Held in Conjunction with the Structures Congress XIV, Held in Chicago, Illinois, April 13, 1996, Dan M. Frangopol, Franklin Y. Cheng, A compilation of twenty papers, "Advances in Structural Optimization" features recent contributions from the United States, Japan, Canada, and Hong Kong to improving design and performance of structures. This volume covers a wide range of contributions ranging from highly theoretical to immediate applications. The following topics are covered: optimal design using genetic algorithms, fuzzy set theory, artificial life approaches, and neural networks; reliability-based optimum design of buildings and bridges; optimal design based on minimum expected life-cycle cost; topology and shape optimization; steel and reinforced concrete frame optimization; and optimization of laminated composite structures.

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