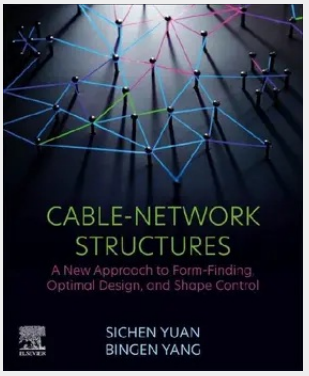
Yuan / Yang

Cable-Network Structures

A New Approach to Form-Finding, Optimal Design, and Shape Control



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Cable-Network Structures: A New Approach to Form-Finding, Optimal Design, and Shape Control provides a framework for form finding, optimal design, and shape control of cable-network structures in various engineering applications. Summarizing the latest research on these structures, the book outlines cutting-edge methods for form finding, modeling, pseudo-geodesic design of surface geometries, minimum residual nodal displacements for optimal shape adjustment, and more. These methods are applied to various large-scale structures, and they are compared with other methods in numerical simulations. Self-contained and easy-to-understand, this book serves as a useful resource on modeling, analysis, design, and control of cable-network structures for professionals, researchers, and students in aerospace, mechanical, and civil engineering.

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