1. Record Nr. UNINA9910830785603321 Autore Adeli Hojjat <1950-> Titolo Cost optimization of structures [[electronic resource]]: fuzzy logic, genetic algorithms, and parallel computing / / Hojjat Adeli, Kamal C. Sarma Chichester, England; ; Hoboken, NJ, : Wiley, c2006 Pubbl/distr/stampa **ISBN** 1-280-72221-5 9786610722211 0-470-30045-0 0-470-86735-3 0-470-86734-5 1 online resource (223 p.) Descrizione fisica Altri autori (Persone) SarmaKamal C <1955-> (Kamal Chandra) Disciplina 620.00450151 721/.042 Structural optimization - Mathematics Soggetti Skyscrapers - Design and construction - Cost control Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Nota di bibliografia Includes bibliographical references (p. [185]-199) and index. Nota di contenuto Cost Optimization of Structures: Contents: Preface: Acknowledgments: About the Authors; 1 Introduction; 1.1 The Case for Cost Optimization; 1.2 Cost Optimization of Concrete Structures; 1.2.1 Concrete Beams

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Sommario/riassunto

While the weight of a structure constitutes a significant part of the cost, a minimum weight design is not necessarily the minimum cost design. Little attention in structural optimization has been paid to the cost optimization problem, particularly of realistic three-dimensional structures. Cost optimization is becoming a priority in all civil engineering projects, and the concept of Life-Cycle Costing is penetrating design, manufacturing and construction organizations. In this groundbreaking book the authors present novel computational models for cost optimization of large scale, realistic