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Autore	Chen Wai-Fah <1936, >
Titolo	Understanding structural engineering : from theory to practice / / Wai-Fah Chen, Salah El-Din E. El-Metwally
Pubbl/distr/stampa	Boca Raton : , : CRC Press, , 2011
ISBN	1-5231-3441-0 0-429-15165-9 1-4398-2711-7
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Altri autori (Persone)	El-MetwallySalah El-Din E
Disciplina	624.1
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Nota di contenuto	Front Cover; Contents; Preface; Authors; Chapter 1: From Science to Engineering; The Era of Elasticity; Chapter 3: The Era of Plasticity; Chapter 4: The Era of Finite Element; Chapter 5: Strut-and-Tie Model for Design of Structural Concrete Discontinuity Regions; Chapter 6: Toward Advanced Analysis for Steel Frame Design; Chapter 7: The Era of Model-Based Simulation; Back Cover
Sommario/riassunto	From science to engineering and from theory to practice, it illustrates different breakthroughs, traced back to their origin and placed into prospective. First, the text presents the fundamental laws of mechanics, the theory of elasticity, and the development of the generalized stress-generalized strain concept. Next, it details the era of plasticity. The finite element method comes as an offspring of the generalized stress generalized strain concept. Finally, the authors explore the era of computer simulation to offer a glimpse into the future--

2. Record Nr.	UNISA996575431003316
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Descrizione fisica	1 online resource (693 pages)
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