1. **Record Nr.** UNINA990001071720403321
   Autore Truesdell, Clifford
   Titolo Foundations of Elasticity Theory / Edited by C. Truesdell
   Pubbl/distr/stampa New York : Gordon and Breach, 1965
   Collana Continuum Mechanics
   Disciplina 531.382
   Locazione FI1
   Collocazione 24A-018.002
   24A-018.005
   Lingua di pubblicazione Inglese
   Formato Materiale a stampa
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2. **Record Nr.** UNINA990004891450403321
   Autore Stearn Davis, William
   Titolo A day in old Athens : A picture of athenian life / by William Stearn Davis
   Pubbl/distr/stampa Boston [etc.] : Allyn and Bacon, c1914
   Descrizione fisica XII, 242 p., [2] tav. : ill. ; 19 cm
   Locazione FLFBC
   Collocazione XI F 15
   Lingua di pubblicazione Italiano
   Formato Materiale a stampa
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3.	Record Nr.	UNINA9910458842403321
	Autore	Taylor David
	Titolo	The theory of critical distances [[electronic resource]] : a new perspective in fracture mechanics / / David Taylor
	Pubbl/distr/stampa	Amsterdam ; ; London, : Elsevier, c2007
	ISBN	1-281-07670-8
		9786611076702
		0-08-055472-5
	Descrizione fisica	1 online resource (307 p.)
	Disciplina	620.1126
	Soggetti	Fracture mechanics
		Fracture mechanics - Mathematical models
		Electronic books.
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	Description based upon print version of record.
	Nota di bibliografia	Includes bibliographical references and index.
	Nota di contenuto	Front Cover; The Theory of Critical Distances: A New Perspective in Fracture Mechanics; Copyright Page; Contents; Preface; Nomenclature; Chapter 1. Introduction; 1.1 Stress-Strain Curves; 1.2 Failure Mechanisms; 1.3 Stress Concentrations; 1.4 Elastic Stress Fields for Notches and Cracks; 1.5 Fracture Mechanics; 1.6 The Failure of Notched Specimens; 1.7 Finite Element Analysis; 1.8 Concluding Remarks: Limitations and Challenges in Failure Prediction; Chapter 2. The Theory of Critical Distances: Basics; 2.1 Introduction; 2.2 Example 1: Brittle Fracture in a Notched Specimen
		2.3 Example 2: Fatigue Failure in an Engineering Component2.4 Relating the TCD to LEFM; 2.5 Finding Values for the Material Constants; 2.6 Some Other TCD Methods: The LM, AM and VM; 2.7 Example 3: Predicting Size Effects; 2.8 Concluding Remarks; Chapter 3. The Theory of Critical Distances in Detail; 3.1 Introduction; 3.2 History; 3.3 Related Theories; 3.4 What is the TCD? Towards a General Definition; Chapter 4. Other Theories of Fracture; 4.1 Introduction; 4.2 Some Classifications; 4.3 Mechanistic Models; 4.4 Statistical Models; 4.5 Modified Fracture Mechanics
		4.6 Plastic-Zone and Process-Zone Theories4.7 Damage Mechanics; 4.8

Sommario/riassunto	Critical distance methods are extremely useful for predicting fracture and fatigue in engineering components. They also represent an important development in the theory of fracture mechanics. Despite being in use for over fifty years in some fields, there has never been a book about these methods - until now. So why now? Because the increasing use of computer-aided stress analysis (by FEA and other techniques) has made these methods extremely easy to use in practical situations. This is turn has prompted researchers to re-examine the underlying theory with renewed interest. The book be