

1. Record Nr.	UNINA9910830775003321
Autore	Callender
Titolo	Rio Grande Rift: El Paso, Texas to Denver, Colorado, July 20-30, 1989, Field Trip Guidebook T318
Pubbl/distr/stampa	[Place of publication not identified], : American Geophysical Union, 1991
ISBN	1-118-66719-0
Descrizione fisica	1 online resource (37 pages) : illustrations
Collana	Field trip guidebook (International Geological Congress (28th : 1989 : Washington, D.C.)) ; ; T318
Disciplina	551.87
Soggetti	Rifts (Geology) - Colorado Rifts (Geology) - New Mexico Rifts (Geology) - Texas
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph

2. Record Nr.	UNINA9910956787703321
Autore	Bazant Z. P
Titolo	Scaling of structural strength // Zdenek P. Bazant
Pubbl/distr/stampa	Oxford ; ; Burlington, MA, : Elsevier/Butterworth-Heinemann, 2005
ISBN	9786610629350 9781280629358 1280629355 9780080461359 0080461352
Edizione	[2nd ed.]
Descrizione fisica	1 online resource (342 p.)
Disciplina	624.171
Soggetti	Structural analysis (Engineering) Strength of materials Scaling laws (Statistical physics)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Previous ed.: London: Hermes Penton Science, 2001.
Nota di bibliografia	Includes bibliographical references (p. [269]-312) and indexes.
Nota di contenuto	Cover; table of contents; Foreword; Author's Preface; About the Author; 1 Introduction; 2 Asymptotic Analysis of Size Effect; 3 Randomness and Disorder; 4 Energetic Scaling for Sea Ice and Concrete Structures; 5 Energetic Scaling of Compression Fracture and Further Applications to Concrete, Rock and Composites; 6 Scaling via J-integral, With Application to Kink Bands in Fiber Composites; 7 Time Dependence, Repeated Loads and Energy Absorption Capacity; 8 Computational Approaches to Quasibrittle Fracture and Its Scaling 9 New Asymptotic Scaling Analysis of Cohesive Crack Model and Smear-Tip Method 10 Size Effect at Continuum Limit on Approach to Atomic Lattice Scale; 11 Future Perspectives; Addendum; Bibliography; index; Subject Index; Reference Citation Index
Sommario/riassunto	This book is concerned with a leading-edge topic of great interest and importance, exemplifying the relationship between experimental research, material modeling, structural analysis and design. It focuses on the effect of structure size on structural strength and failure behaviour. Bazant's theory has found wide application to all quasibrittle materials, including rocks, ice, modern fiber composites and tough

ceramics. The topic of energetic scaling, considered controversial until recently, is finally getting the attention it deserves, mainly as a result of Bazant's pioneering work. I
