1. Record Nr. UNINA9910701017203321

Titolo	Asbestos [[electronic resource]] : do not disturb
Pubbl/distr/stampa	Washington, D.C. : , : Office of Compliance, , [2007]
Descrizione fisica	1 online resource (2 unnumbered pages) : color illustrations
Collana	Fast facts
Soggetti	Asbestos - Safety measures Work environment - United States - Safety measures
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"September 2007." Title from title screen (viewed on Dec. 22, 2011).

2. Record Nr. UNINA9910920444603321

Autore	Meguid S. A.
Titolo	Atomistic and Continuum Fracture Mechanics of Solids : An Integrated Treatment / / by Shaker A. Meguid
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2024
ISBN	9783031560859 9783031560842
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (284 pages)
Disciplina	620.1126
Soggetti	Continuum mechanics Materials science - Data processing Mechanics, Applied Physics Dynamics Nonlinear theories Mechanics Continuum Mechanics Atomistic Models Engineering Mechanics Classical and Continuum Physics Applied Dynamical Systems Classical Mechanics

Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Chapter 1. Atomistic and Continuum Treatments of Solids -- Chapter 2. Fundamentals of Molecular Dynamics -- Chapter 3. Fundamentals of Elastic Behavior of a Continuum -- Chapter 4. Fundamentals of the Finite Element Method -- Chapter 5. Interatomic Bonds & Defects in Solids -- Chapter 6. Modes of Failure -- Chapter 7. Brittle Fracture -- Chapter 8. Linear Elastic Fracture Mechanics -- Chapter 9. Atomistic Fracture Mechanics -- Chapter 10. Multiscale Modeling of Nanocomposites.
Sommario/riassunto	This unique, first of its kind, book offers an integrated treatment of the atomistic-continuum behaviours of single and interacting microdefects under elasto-static loading. These microdefects may take the form of nanocracks, microcracks, microvoids, inclusions, and inhomogeneities. Professor Meguid elucidates the subject matter using novel treatment that offers a fresh look at molecular and continuum mechanics, imperfections in solids, the Griffith crack, modes of failure and diagnostics at varied length scales, LEFM and multiscale modeling of interacting microdefects. Providing a range of perspectives from theory and applications, this book is ideal for college seniors, graduate students, practicing and research engineers interested in failure analysis, diagnostics and prevention. Fosters greater understanding of fracture mechanics concepts at varied length scales; Adopts a unique approach combining atomistic and continuum behaviours of interacting nano/microdefects; Empowers conceptual interpretations of content through a thorough treatment of the subject.