

1. Record Nr.	UNINA9910141192203321
Titolo	Mechanical stress on the nanoscale [[electronic resource] ] : simulation, material systems and characterization techniques / / edited by Margrit Hanbucken, Pierre Muller, and Ralf B. Wehrspohn
Pubbl/distr/stampa	Weinheim, Germany, : Wiley-VCH, 2011
ISBN	3-527-63955-1 1-283-37949-X 9786613379498 3-527-63954-3 3-527-63956-X
Descrizione fisica	1 online resource (382 p.)
Altri autori (Persone)	HanbuckenMargrit MullerPierre WehrspohnRalf B
Disciplina	620.115
Soggetti	Nanoscience Mechanics
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	pt. 1. Fundamentals of stress and strain on the nanoscale -- pt. 2. Model systems with stress-engineered properties -- pt. 3. Characterization techniques of measuring stresses on the nanoscale.
Sommario/riassunto	Bringing together experts from the various disciplines involved, this first comprehensive overview of the current level of stress engineering on the nanoscale is unique in combining the theoretical fundamentals with simulation methods, model systems and characterization techniques. Essential reading for researchers in microelectronics, optoelectronics, sensing, and photonics.