

1. Record Nr.	UNINA9910254230703321
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Titolo	Finite Element Modeling of Nanotube Structures : Linear and Non-linear Models // by Mokhtar Awang, Ehsan Mohammadpour, Ibrahim Dauda Muhammad
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2016
ISBN	3-319-03197-X
Edizione	[1st ed. 2016.]
Descrizione fisica	1 online resource (216 p.)
Collana	Engineering Materials, , 1612-1317
Disciplina	620.00151535
Soggetti	Mechanics Mechanics, Applied Nanotechnology Solid Mechanics Nanotechnology and Microengineering
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.
Nota di contenuto	Introduction -- Nanotube structures -- Modeling process for carbon structures -- Mechanical behavior of carbon structures.
Sommario/riassunto	This book presents a new approach to modeling carbon structures such as graphene and carbon nanotubes using finite element methods, and addresses the latest advances in numerical studies for these materials. Based on the available findings, the book develops an effective finite element approach for modeling the structure and the deformation of grapheme-based materials. Further, modeling processing for single-walled and multi-walled carbon nanotubes is demonstrated in detail.