

1. Record Nr.	UNINA9910971110603321
Autore	Thomas Sabu
Titolo	Foundations of nanotechnology : nanoelements formation and interaction // Sabu Thomas, PhD, Saeedeh Rafiei, Shima Maghsoodlou, and Arezo Afzali
Pubbl/distr/stampa	Waretown, N.J. : , : Apple Academic Press, Inc., , 2015 ©2015
ISBN	1-77463-105-9 0-429-17063-7 1-77188-028-7
Edizione	[First edition.]
Descrizione fisica	1 online resource (411 p.)
Collana	AAP Research Notes on Nanoscience & Nanotechnology
Disciplina	620.5
Soggetti	Nanotechnology
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	Front Cover; ABOUT AAP RESEARCH NOTES ON NANOSCIENCE & NANOTECHNOLOGY; BOOKS IN THE AAP RESEARCH NOTES ON NANOSCIENCE & NANOTECHNOLOGY BOOK SERIES; ABOUT THE AUTHORS; CONTENTS; LIST OF ABBREVIATIONS; LIST OF SYMBOLS; PREFACE; CHAPTER 1: NANOSCALE SCIENCE AND TECHNOLOGY: AN OVERVIEW; CHAPTER 2: NANOELEMENT MANUFACTURING:SELF-ASSEMBLY; CHAPTER 3: NANOMATERIALS: PROPERTIES AND APPLICATION; CHAPTER 4: MODELING AND SIMULATION; CHAPTER 5: MOLECULAR SIMULATION FOR NANOMATERIALS; CHAPTER 6: NUMERICAL SIMULATION OF NANOELEMENTS; CHAPTER 7: NUMERICAL STUDY OF AXIAL AND COAXIAL ELECTROSPINNING PROCESS
Sommario/riassunto	The collection of topics in this book reflects the diversity of recent advances in nanoelements formation and interactions in nanosystems with a broad perspective that is useful for scientists as well as for graduate students and engineers. One of the main tasks in making nanocomposites is building the dependence of the structure and shape of the nanoelements, forming the basis for the composite of their sizes. This is because with an increase or a decrease in the specific size of nanoelements, their physical-mechanical properties such as the

