

1. Record Nr.	UNINA9910824097503321
Titolo	Multiscale simulations and mechanics of biological materials // edited by Shaofan Li, Dong Qian
Pubbl/distr/stampa	Somerset, N.J., : Wiley, 2013
ISBN	9781118402948 1118402944 9781118402955 1118402952 9781299277458 1299277454 9781118452530 1118452534
Edizione	[1st ed.]
Descrizione fisica	1 online resource (475 p.)
Altri autori (Persone)	LiShaofan QianDong
Disciplina	612.7/6
Soggetti	Biomechanics Multiscale modeling
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. Multiscale simulation theory -- pt. 2. Patient-specific fluid-structure interaction modeling, simulation and diagnosis -- pt. 3. From cellular structure to tissues and organs -- pt. 4. Bio-mechanics and materials of bones and collagens.
Sommario/riassunto	Multiscale Simulations and Mechanics of Biological Materials A compilation of recent developments in multiscale simulation and computational biomaterials written by leading specialists in the field Presenting the latest developments in multiscale mechanics and multiscale simulations, and offering a unique viewpoint on multiscale modelling of biological materials, this book outlines the latest developments in computational biological materials from atomistic and molecular scale simulation on DNA, proteins, and nano-particles, to meoscale soft matter modelli

