Record Nr.	UNINA9910299493303321
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Titolo	Nonlinear Theory of Electroelastic and Magnetoelastic Interactions / / by Luis Dorfmann, Ray W. Ogden
Pubbl/distr/stampa	New York, NY : , : Springer US : , : Imprint : Springer, , 2014
ISBN	1-4614-9596-2
Edizione	[1st ed. 2014.]
Descrizione fisica	1 online resource (318 p.)
Disciplina	620 620.1 621.3 681.2
Soggetti	Electrical engineering Mechanics Mechanics, Applied Electrical Engineering Theoretical and Applied Mechanics Solid Mechanics
Lingua di pubblicazione	Inglese
Lingua di pubblicazione Formato	Inglese Materiale a stampa
	Inglese
Formato	Inglese Materiale a stampa
Formato Livello bibliografico	Inglese Materiale a stampa Monografia
Formato Livello bibliografico Note generali	Inglese Materiale a stampa Monografia Description based upon print version of record. Includes bibliographical references at the end of each chapters and

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summarize the basic ingredients of continuum mechanics that are required to account for the deformability of material and present nonlinear constitutive frameworks for electroelastic and magnetoelastic interactions in a highly deformable material. The equations contained in the book are used to formulate and solve a variety of representative boundary-value problems for both nonlinear electroelasticity and magnetoelasticity.