1. Record Nr.   UNINA990006348230403321
   Autore   Doring, Detlef
   Titolo   Pufendorf-Studien : beitrage zur biographie Samuel von Pufendorfs und
                      zu seiner Entwicklung als Historiker und theologischer Schriftsteller /
                      Detlef Doring
   Pubbl/distr/stampa Berlin : Duncker & Humblot, 1992
   Descrizione fisica 272 p. ; 23 cm
   Collana   Historische Forschungen ; 49
   Disciplina   291.2.920
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   Livello bibliografico   Monografia

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	Autore	Priester Louisette
	Titolo	Grain boundaries : from theory to engineering / / Louisette Priester
	Pubbl/distr/stampa	New York, : Springer, 2013
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		94-007-4969-4
	Edizione	[1st ed. 2013.]
	Descrizione fisica	1 online resource (457 p.)
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	Soggetti	Grain boundaries
		Dislocations in crystals
	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. From grain boundary order to disorder -- pt. 2. From ideal to real grain boundary -- pt. 3. From the free to the constrained grain boundary.
	Sommario/riassunto	Grain boundaries are a main feature of crystalline materials. They play a key role in determining the properties of materials, especially when grain size decreases and even more so with the current improvements of processing tools and methods that allow us to control various elements in a polycrystal. This book presents the theoretical basis of the study of grain boundaries and aims to open up new lines of research in this area. The treatment is light on mathematical approaches while emphasizing practical examples; the issues they raise are discussed with reference to theories. The general approach of the book has two main goals: to lead the reader from the concept of 'ideal' to 'real' grain boundaries; to depart from established knowledge and address the opportunities emerging through "grain boundary engineering", the control of morphological and crystallographic features that affect material properties. The book is divided in three parts: I 'From interganular order to disorder' deals with the concept of the perfect grain boundary, at equilibrium, and questions the maintenance of its crystalline state. II 'From the ideal to the real grain

boundary' deals with the concept of the faulted grain boundary. It attempts to reveal the influence of the grain boundary structure on its defects, their formation and their accommodation. III 'From free to constrained grain boundaries' is devoted to grain boundary ensembles starting from the triple junction (the elemental configuration) to real grain boundary networks in polycrystals This part covers a new and topical development in the field. It presents for the first time an avenue for researchers working on macroscopic aspects, to approach the scale of description of grain boundaries. Audience: graduate students, researchers and engineers in Materials Science and all those scientists pursuing grain boundary engineering in order to improve materials performance.