1. Record Nr. UNINA9910702979903321

Titolo	Small wind turbine testing results from the National Renewable Energy Lab [[electronic resource] /] / A. Bowen ... [and others]
Pubbl/distr/stampa	[Golden, CO] : , : National Renewable Energy Laboratory, , [2009]
Descrizione fisica	1 online resource (11 pages) : illustrations
Collana	Conference paper ; ; NREL/CP-500-45632
Altri autori (Persone)	BowenAmy
Soggetti	Wind turbines - Testing Wind power - Research
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from PDF title screen (viewed Jan. 22, 2010). "Presented at the American Wind Energy Association WINDPOWER 2009 Conference and Exhibition, Chicago, Illinois, May 4-7, 2009." "July 2009."
Nota di bibliografia	Includes bibliographical references (page 11).

2. Record Nr. UNINA9910438111803321

Autore	Priester Louisette
Titolo	Grain boundaries : from theory to engineering / / Louisette Priester
Pubbl/distr/stampa	New York, : Springer, 2013
ISBN	1-283-91146-9 94-007-4969-4
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (457 p.)
Collana	Springer series in materials science, , 0933-033X ; ; v. 172
Disciplina	541 620.11299 669/.95
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.