1. Record Nr. UNINA9910698346203321

Autore	Kelley Neil D (Neil Davis), <1942->
Titolo	Overview of the TurbSim stochastic inflow turbulence simulator [[electronic resource]] : Version 1.10 / / N.D. Kelley and B.J. Jonkman
Pubbl/distr/stampa	Golden, Colo. : , : National Renewable Energy Laboratory, , [2006]
Edizione	[Version 1.10.]
Descrizione fisica	15 pages : digital, PDF file
Collana	NREL/TP ; ; 500-39796
Altri autori (Persone)	JonkmanB. J (Bonnie J.)
Soggetti	Wind power - Research Atmospheric turbulence Wind turbines - Research
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from title screen (viewed Jan. 10, 2008). "September 2006." Supercedes original version presented in NREL/TP-500-36971.

2. Record Nr. UNINA9910337589003321

Autore	Roy Anindita
Titolo	Wind Power Based Isolated Energy Systems / / by Anindita Roy, Santanu Bandyopadhyay
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2019
ISBN	3-030-00542-9
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (212 pages)
Disciplina	621.312136
Soggetti	Electric power production Environmental management Computer simulation Electrical Power Engineering Mechanical Power Engineering Environmental Management Computer Modelling
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter1: Introduction to Isolated Energy Systems -- Chapter2: Wind Energy Systems -- Chapter3: Modelling of Isolated Systems -- Chapter4: Design and optimization of wind-battery systems -- Chapter5: Probabilistic modelling and optimization -- Chapter6: Non-convexity in the Design Space of Wind-battery Systems -- Chapter7: Multiple Wind Generator Systems -- Chapter8: Design and optimization of wind-PV-battery hybrid -- Chapter9: Conclusions.
Sommario/riassunto	This book offers methods to improve energy access and support social and economic development through the appropriate and reliable design of isolated wind energy systems. The findings reported on wind based isolated power generation show that the proper match of turbine diameter and generator rating is vital, and is governed by the site wind resource and the load profile to be served. The methodology for sizing and selecting appropriate system parameters, taking into account the resource uncertainty, is demonstrated throughout the chapters of this monograph. Readers will discover information on the methodologies

for modelling, design and optimization of the systems in terms of safety, functionality, longevity, and practicality. Details are provided on the design space of wind-battery systems, multiple wind generator systems, and wind-PV-battery hybrids to cover all the bases of isolated wind energy systems. This monograph aims to serve as a guide to system developers, manufacturers, and financing institutions on the design aspects of isolated wind energy systems. .