1. Record Nr. UNINA9910495795403321

Autore	Bächtold Manuel
Titolo	Epistémologie & didactique : Synthèses et études de cas en mathématiques et en sciences expérimentales / / Manuel Bächtold, Viviane Durand-Guerrier, Valérie Munier
Pubbl/distr/stampa	Besançon, : Presses universitaires de Franche-Comté, 2020
ISBN	2-84867-759-7
Descrizione fisica	1 online resource (270 p.)
Collana	Pratiques & techniques
Altri autori (Persone)	BlanquetEstelle BoilevinJean-Marie ChesnaisAurélie DorierJean-Luc Durand-GuerrierViviane GardesMarie-Line GrivopoulosKonstantinos JovignotJulie MaronValentin ModesteSimon MolvingerKarine MunierValérie PicholleÉric RittaudBenoît RolandMichel Scotto d'ApolloniaLionel VergnacMartine VivierLaurent YvainSonia BächtoldManuel
Soggetti	Education, Scientific Disciplines histoire des sciences épistémologie didactique des mathématiques didactique des sciences expérimentales enseignement
Lingua di pubblicazione	Francese

Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	Cet ouvrage explore le rôle que peut jouer l'épistémologie en didactique des sciences expérimentales et des mathématiques. Il offre une vue d'ensemble sur cette question ainsi qu'une série d'études de cas portant sur des contenus d'enseignement variés et couvrant différents niveaux d'enseignement, depuis l'école primaire jusqu'à l' université. Les contributions se répartissent selon deux axes de recherche. Le premier examine la construction des connaissances scientifiques elles-mêmes et leur transposition pour la classe, tandis que le second s'intéresse davantage au mode d'enseignement des sciences.

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. .