1. Record Nr. UNISALENTO991001045029707536

Autore	Allmen, Martin : von
Titolo	Laser-beam interactions with materials / Martin von Allmen
Pubbl/distr/stampa	Berlin : Springer-Verlag, 1987
ISBN	0387175687
Descrizione fisica	x, 232 p. : ill. ; 24 cm.
Collana	Springer series in materials science ; 2
Classificazione	53.2.68 53.7.18 620.1'1228 TA418.6
Soggetti	Laser beams Materials, effect of radiation on
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes bibliography and index.

2. Record Nr. UNINA9910755096003321

Autore	Boukerche Azzedine
Titolo	Proceedings of the Int'l ACM Conference on Modeling Analysis and Simulation of Wireless and Mobile Systems / / Azzedine Boukerche
Pubbl/distr/stampa	New York, NY, United States : , : Association for Computing Machinery, , 2023
Descrizione fisica	1 online resource (330 pages)
Disciplina	0074
Soggetti	Computer science Computer programming
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia

3. Record Nr. UNINA9910437782803321

Titolo	Photovoltaic sources : modeling and emulation / / Maria Carmela Di Piazza, Gianpaolo Vitale
Pubbl/distr/stampa	New York, : Springer, 2013
ISBN	9781447143789 1447143787
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (303 p.)
Collana	Green energy and technology, , 1865-3529
Altri autori (Persone)	VitaleGianpaolo Di PiazzaMaria Carmela
Disciplina	621.31 621.31/244 621.31244
Soggetti	Photovoltaic power generation
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.

Nota di contenuto	From Nuclear Fusion to the Radiated Energy on the Earth -- From Radiated Energy to Electric Energy: Physics of Photovoltaic Cell -- Photovoltaic Source Models -- Parameters Identification for Photovoltaic Source Models -- Photovoltaic Source Dynamic Modeling Issues -- Photovoltaic Source Emulation -- DC/DC Power Converters (for PV Source Emulation) -- Control of the DC/DC converters for PV source emulation.
Sommario/riassunto	Modeling of photovoltaic sources and their emulation by means of power electronic converters are challenging issues. The former is tied to the knowledge of the electrical behavior of the PV generator; the latter consists in its realization by a suitable power amplifier. This extensive introduction to the modeling of PV generators and their emulation by means of power electronic converters will aid in understanding and improving design and set up of new PV plants. The main benefit of reading Photovoltaic Sources is the ability to face the emulation of photovoltaic generators obtained by the design of a suitable equipment in which voltage and current are the same as in a real source. This is achieved according to the following steps: the source electrical behavior modeling, the power converter design, including its control, for the laboratory emulator. This approach allows the reader to cope with the creation of an indoor virtual photovoltaic plant, in which the environmental conditions can be imposed by the user, for testing real operation including maximum power point tracking, partial shading, control for the grid or load interfacing, etc. Photovoltaic Sources is intended to meet the demands of postgraduate level students, and should prove useful to professional engineers and researchers dealing with the problems associated with modeling and emulation of photovoltaic sources.