

1. Record Nr.	UNINA9910462730403321
Titolo	Green mobile devices and networks : energy optimization and scavenging techniques // Hrishikesh Venkataraman and Gabriel-Miro Muntean, editors
Pubbl/distr/stampa	Boca Raton, Fla. : , : CRC Press, , 2012
ISBN	0-429-06245-1 1-280-12241-2 9786613526274 1-4398-5990-6
Edizione	[1st edition]
Descrizione fisica	1 online resource (395 p.)
Altri autori (Persone)	VenkataramanHrishikesh MunteanGabriel-Miro <1972->
Disciplina	621.3845/6
Soggetti	Mobile communication systems - Energy conservation Green electronics Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	An Auerbach book.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	section 1. Optimization techniques -- section 2. Scavenging techniques.
Sommario/riassunto	Powering the astounding functional advancement of mobile devices requires a revolution in the concept of battery life and recharge capability. This book provides insight into the principles and technical challenges behind automatically optimizing energy consumption in a dynamic real-time scenario. It discusses the continuous monitoring of battery life and the automatic adjustment of different functionalities including the reception mechanism, the complexity of the software modules, and the perceived video quality. It deals with different energy scavenging techniques and the technologies behind harvesting energy through sources like solar, light, acoustics, kinetic, mechanical vibrations, and electromagnetic waves--

2. Record Nr.	UNINA9910796553503321
Autore	Agachi Paul Serban
Titolo	Advanced process engineering control / / Paul Serban Agachi, Mircea Vasile Cristea, Alexandra Ana Csavdari, Botond Szilagyi
Pubbl/distr/stampa	Berlin ; ; Boston : , : Walter de Gruyter GmbH & Company, KG, , [2017] ©2017
ISBN	3-11-038816-2 3-11-030663-8
Descrizione fisica	1 online resource (344 pages) : illustrations
Collana	De Gruyter textbook
Disciplina	660/.2815
Soggetti	Process control Systems engineering Chemical process control Chemical engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Frontmatter -- Preface -- Contents -- Part I: Advanced Process Control -- 1. Complex and nonconventional control systems -- 2. Model predictive control -- 3. Fuzzy control -- 4. Optimal control systems -- 5. Multivariable control -- 6. Plantwide control -- 7. Linear discrete systems and Z transform -- Part II: Applied Process Engineering Control -- 8. Reaction unit control -- 9. Control of distillation processes -- 10. Control of absorption processes -- 11. Control of extraction processes -- 12. Control of evaporation processes -- 13. Control of drying processes -- 14. Control of crystallization processes -- 15. Problems and exercises -- Index
Sommario/riassunto	As a mature topic in chemical engineering, the book provides methods, problems and tools used in process control engineering. It discusses: process knowledge, sensor system technology, actuators, communication technology, and logistics, design and construction of control systems and their operation. The knowledge goes beyond the traditional process engineering field by applying the same principles, to biomedical processes, energy production and management of environmental issues. The book explains all the determinations in the

"chemical systems" or "process systems", starting from the beginning of the processes, going through the intricate interdependency of the process stages, analyzing the hardware components of a control system and ending with the design of an appropriate control system for a process parameter or a whole process. The book is first addressed to the students and graduates of the departments of Chemical or Process Engineering. Second, to the chemical or process engineers in all industries or research and development centers, because they will notice the resemblance in approach from the system and control point of view, between different fields which might seem far from each other, but share the same control philosophy.
