

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--