1. Record Nr. UNINA9910438052203321

Autore	Marien Hagen
Titolo	Analog organic electronics : building blocks for organic smart sensor systems on foil / / Hagen Marien, Michiel Steyaert, Paul Heremans
Pubbl/distr/stampa	New York, NY, : Springer, 2012, c2013
ISBN	9781461434214 1461434211
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (172 p.)
Collana	Analog circuits and signal processing
Altri autori (Persone)	HeremansPaul L SteyaertMichiel <1959->
Disciplina	535.357
Soggetti	Analog electronic systems Organic electronics
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 and index.
Nota di contenuto	Introduction -- Organic Thin-Film Transistor Technology: Properties and Functionality -- Amplifier Design -- A/D Conversion -- Sensors -- DC-DC Conversion -- Conclusions.
Sommario/riassunto	This book provides insight into organic electronics technology and in analog circuit techniques that can be used to increase the performance of both analog and digital organic circuits. It explores the domain of organic electronics technology for analog circuit applications, specifically smart sensor systems. It focuses on all the building blocks in the data path of an organic sensor system between the sensor and the digital processing block. Sensors, amplifiers, analog-to-digital converters and DC-DC converters are discussed in detail. Coverage includes circuit techniques, circuit implementation, design decisions and measurement results of the building blocks described. Offers readers the first book to focus on analog organic circuit design; Discusses organic electronics technology for analog circuit applications in the context of smart sensor systems; Describes all building blocks necessary for an organic sensor system between the sensor and the digital processing block; Includes circuit techniques, circuit implementation, design decisions and measurement results. .