

1. Record Nr.	UNINA9910438052203321
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Titolo	Analog Organic Electronics [[electronic resource]] : Building Blocks for Organic Smart Sensor Systems on Foil / / by Hagen Marien, Michiel Steyaert, Paul Heremans
Pubbl/distr/stampa	New York, NY : , : Springer New York : , : Imprint : Springer, , 2013
ISBN	1-4614-3421-1
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (172 p.)
Collana	Analog Circuits and Signal Processing, , 1872-082X
Disciplina	535.357
Soggetti	Electronic circuits Electronics Microelectronics Nanotechnology Circuits and Systems Electronics and Microelectronics, Instrumentation Nanotechnology and Microengineering
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. .
