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Titolo	Design of Organic Complementary Circuits and Systems on Foil / / by Sahel Abdinia, Arthur van Roermund, Eugenio Cantatore
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ISBN	3-319-21188-9
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Descrizione fisica	1 online resource (132 p.)
Collana	Analog Circuits and Signal Processing, , 1872-082X
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Soggetti	Electronic circuits Electronics Microelectronics Circuits and Systems Electronic Circuits and Devices Electronics and Microelectronics, Instrumentation
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Introduction -- Complementary OTFT Technology -- OTFT Modelling and Characteristics -- Digital Circuit Design -- Analogue and Mixed-Signal Circuit Design -- Display Driver -- Temperature Monitor -- RFID Tag -- Conclusions.
Sommario/riassunto	This book describes new approaches to fabricate complementary organic electronics, and focuses on the design of circuits and practical systems created using these manufacturing approaches. The authors describe two state-of-the-art, complementary organic technologies, characteristics and modeling of their transistors and their capability to implement circuits and systems on foil. Readers will benefit from the valuable overview of the challenges and opportunities that these extremely innovative technologies provide. · Demonstrates first circuits implemented using specific complementary organic technologies, including first printed analog to digital converter, first dynamic logic on foil and largest complementary organic circuit · Includes step-by-step design from single transistor level to complete systems on foil · Provides a platform for comparing

state-of-the-art complementary organic technologies and for comparing these with other similar technologies, specifically unipolar organic technologies.