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2. Record Nr.	UNINA9910437769703321
Autore	Breussegem Tom van
Titolo	CMOS integrated capacitive DC-DC converters // Tom Van Breussegem, Michiel Steyaert
Pubbl/distr/stampa	New York, NY, : Springer, 2012, c2013
ISBN	9786613936370 9781283623926 1283623927 9781461442806 146144280X
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Descrizione fisica	1 online resource (218 p.)
Collana	Analog circuits and signal processing
Altri autori (Persone)	SteyaertMichiel <1959->
Disciplina	621.3815
Soggetti	DC-to-DC converters Electric current converters
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.

Nota di contenuto

Introduction -- Converter Topologies and Fundamentals -- Modeling and Design of Capacitive DC-DC Converters -- Noise Reduction by Multi-phase Interleaving and Fragmentation -- Control of Fully Integrated Capacitive Converters -- Monolithic Integration of DC-DC Converters in CMOS -- DC-DC Converter Prototypes -- Conclusions. .

Sommario/riassunto

This book provides a detailed analysis of all aspects of capacitive DC-DC converter design: topology selection, control loop design and noise mitigation. Readers will benefit from the authors' systematic overview that starts from the ground up, in-depth circuit analysis and a thorough review of recently proposed techniques and design methodologies. Not only design techniques are discussed, but also implementation in CMOS is shown, by pinpointing the technological opportunities of CMOS and demonstrating the implementation based on four state-of-the-art prototypes. Provides a detailed analysis of all aspects of capacitive DC-DC converter design; Analyzes the potential of this type of DC-DC converter and introduces a number of techniques to unleash their full potential; Combines system theory with practical implementation techniques; Includes unique analysis of CMOS technology for this application; Provides in-depth analysis of four fabricated prototypes.
