



# Delta-Sigma Modulators: Modeling, Design and Applications

*George I. Bourdopoulos, Aristodemos Pnevmatikakis, Vassilis Anastassopoulos, Theodore L. Deliyannis*

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Dealing with the modelling and design of higher-order single-stage delta-sigma modulators, this book provides an overview of the architectures, the quantizer models, the design techniques and the implementation issues encountered in the study of the delta-sigma modulators. A number of applications are discussed, with emphasis on use in the design of analog-to-digital converters and in frequency synthesis. The book is education rather than research-oriented, containing numerical examples and unsolved problems. It is aimed at introducing the final-year undergraduate, the graduate student or the electronic engineer to this field.



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