ANALOG CIRCUIT DESIGN
Analog Circuit Design
High-Speed A-D Converters, Automotive Electronics and Ultra-Low Power Wireless

Edited by

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Preface

This book is part of the Analog Circuit Design series, and comprises three chapters, each discussing a very relevant topic that receives a lot of attention in analog circuit design at this moment:

1. High-Speed AD Converters
2. Automotive Electronics: EMC issues
3. Ultra-Low Power Wireless

The book contains eighteen tutorial papers, six per chapter. These papers are written by six experts in each field, reflecting their presentations held at the 15th workshop on Advances in Analog Circuit Design (AACD), Maastricht, The Netherlands, April 2006. The workshop was organised by Neil Bird of Philips Research The Netherlands, and the program committee consisted of Arthur van Roermund from Eindhoven University of Technology, The Netherlands; Herman Casier of AMI Semiconductor Belgium, and Michiel Steyaert from Katholieke Universiteit Leuven, Belgium; who are also the editors of this book.

This book is number 15 in the successful series of Analog Circuit Design, providing valuable information and excellent overviews of analog circuit design and related CAD, mainly in the fields of basic analog modules, mixed-signal electronics, AD and DA converters, RF systems, and automotive electronics. For the previous books in the series, see next page.

Analog Circuit Design is an essential reference source for analog circuit designers and researchers wishing to keep abreast with the latest developments in the field. The tutorial coverage also makes it suitable for use in an advanced design course.

We hope that also this book will provide a valuable contribution to our Analog Circuit Design community.

Arthur van Roermund
**Previous Books in *Analog Circuit Design***

The series on Analog Circuit Design covers the topics of previous workshops on Advanced Analog Circuit Design (AACD), as listed in the following table:

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<th>Location</th>
<th>Topics</th>
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<td>2005</td>
<td>Limerick (Ireland)</td>
<td>RF Circuits: Wide Band, Front-Ends, DACs Design Methodology and Verif for RF and M/S Systems Low Power and Low Voltage</td>
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<td>2004</td>
<td>Montreux (Swiss)</td>
<td>Sensor and Actuator Interface Electronics Integrated High-Voltage Electronics and Power Mgt Low-Power and High-Resolution ADCs</td>
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<td>2003</td>
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<td>Spa (Belgium)</td>
<td>Structured Mixed-Mode Design Multi-Bit Sigma-Delta Converters Short-Range RF Circuits</td>
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<td>Munich (Germany)</td>
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<td>1998</td>
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