

Preface to Second Edition

A new edition of a book is always a good opportunity to keep up with the latest developments in the field and to correct some errors in previous editions. To do so, I have done the following for this second edition:

- Set up a web page for the book at the following URL:
<http://hometown.aol.de/uwemeyerbaese>
The site has additional information on DSP with FPGAs, useful links, and additional support for your designs, such as code generators and extra documentation.
- Corrected the mistakes from the first edition. The errata for the first edition can be downloaded from the book web page or from the Springer web page at www.springer.de, by searching for Meyer-Baese.
- A total of approximately 100 pages have been added to the new edition. The major new topics are:
 - The design of serial and array dividers
 - The description of a complete floating-point library
 - A new Chap. 8 on adaptive filter design
- Altera's current student version has been updated from 9.23 to 10.2 and all design examples, size and performance measurements, i.e., many tables and plots have been compiled for the EPF10K70RC240-4 device that is on Altera's university board UP2. Altera's UP1 board with the EPF10K20RC240-4 has been discontinued.
- A solution manual for the first edition (with more than 65 exercises and over 33 additional design examples) is available from Amazon. Some additional (over 25) new homework exercises are included in the second edition.

Acknowledgements. I would like to thank my colleagues and students for the feedback to the first edition. It helped me to improve the book. Special thanks to: P. Ashenden, P. Athanas, D. Belc, H. Butterweck, S. Conners, G. Coutu, P. Costa, J. Hamblen, M. Horne, D. Hyde, W. Li, S. Lowe, H. Natarajan, S. Rao, M. Rupp, T. Sexton, D. Sunkara, P. Tomaszewicz, F. Verahrami, and Y. Yunhua.

From Altera, I would like to thank B. Esposito, J. Hanson, R. Maroccia, T. Mossadak, and A. Acevedo (now with Xilinx) for software and hardware support and the permission to include datasheets and MaxPlus II on the CD of this book.

From my publisher (Springer-Verlag) I would like to thank P. Jantzen, F. Holzwarth, and Dr. Merkle for their continuous support and help over recent years.

I feel excited that the first edition was a big success and sold out quickly. I hope you will find this new edition even more useful. I would also be grateful, if you have any suggestions for how to improve the book, if you would e-mail me at Uwe.Meyer-Baese@ieee.org or contact me through my publisher.

Tallahassee, October 2003

Uwe Meyer-Bäse