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# Scientific Computing in Electrical Engineering

**SCEE 2010** 





# **Scientific Computing In Electrical Engineering**

Wilhelmus H. Schilders, E. Jan W. ter Maten, Stephan H. M. J. Houben

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papers presented at the 11th International Conference on Scientific Computing in Electrical Engineering SCEE held in St Wolfgang Austria in 2016 showcases the state of the art in SCEE The aim of the SCEE 2016 conference was to bring together scientists from academia and industry mathematicians electrical engineers computer scientists and physicists and to promote intensive discussions on industrially relevant mathematical problems with an emphasis on the modeling and numerical simulation of electronic circuits and devices electromagnetic fields and coupled problems. The focus in methodology was on model order reduction and uncertainty quantification This extensive reference work is divided into six parts Computational Electromagnetics Circuit and Device Modeling and Simulation Coupled Problems and Multi Scale Approaches in Space and Time Mathematical and Computational Methods Including Uncertainty Quantification Model Order Reduction and Industrial Applications Each part starts with a general introduction followed by the respective contributions This book will appeal to mathematicians and electrical engineers Further it introduces algorithm and program developers to recent advances in the other fields while industry experts will be introduced to new programming tools and mathematical methods Computing in Electrical Engineering SCEE 2008 Luis R.J. Costa, Janne Roos, 2010-06-14 This book is a collection of 65 selected papers presented at the 7th International Conference on Scientific Computing in Electrical Engineering SCEE held in Espoo Finland in 2008 The aim of the SCEE 2008 conference was to bring together scientists from academia and industry e g mathematicians electrical engineers computer scientists and physicists with the goal of intensive discussions on industrially relevant mathematical problems with an emphasis on modeling and numerical simulation of electronic circuits and devices electromagnetic fields and coupled problems This extensive reference work is divided into five parts 1 Computational electromagnetics 2 Circuit simulation 3 Coupled problems 4 Mathematical and computational methods and 5 Model order reduction Each part starts with an general introduction followed by the actual papers Scientific Computing in Electrical Engineering Ursula van Rienen, Michael Günther, Dirk Hecht, 2001-08-28 rd This book presents a collection of selected contributions presented at the 3 International Workshop on Scientific Computing in Electrical Engineering SCEE 2000 which took place in Warnemiinde Germany from August 20 to 23 2000 Nearly hundred scientists and engineers from thirteen countries gathered in Warnemiinde to participate in the conference Rostock Univer sity the oldest university in Northern Europe founded in 1419 hosted the conference This workshop followed two earlier workshops held 1997 at the Darmstadt University of Technology and 1998 at Weierstrass Institute for Applied Analysis and Stochastics in Berlin under the auspices of the German Mathematical Society These workshops aimed at bringing together two scientific communities applied mathematicians and electrical engineers who do research in the field of scientific computing in electrical engineering This of course is a wide field which is why it was decided to concentrate on selected major topics. The workshop in Darmstadt which was organized by Michael Giinther from the Mathematics Department and Ursula van Rienen from the Department of Electrical Engineering and Information Technology brought together more than hundred scientists interested in numerical

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organized by the Helsinki University of Technology Faculty of Electronics Communications and Automation Department of Radio Science and Engineering Circuit Theory Group Details on the SCEE 2008 conference are at http radio tkk fi en conferences scee 2008 Scientific Computing in Electrical Engineering Ursula van Rienen, Michael Günther, Dirk Hecht, rd This book presents a collection of selected contributions presented at the 3 International Workshop on Scientific Computing in Electrical Engineering SCEE 2000 which took place in Warnemiinde Germany from August 20 to 23 2000 Nearly hundred scientists and engineers from thirteen countries gathered in Warnemiinde to participate in the conference Rostock Univer sity the oldest university in Northern Europe founded in 1419 hosted the conference This workshop followed two earlier workshops held 1997 at the Darmstadt University of Technology and 1998 at Weierstrass Institute for Applied Anal ysis and Stochastics in Berlin under the auspices of the German Mathematical Society These workshops aimed at bringing together two scientific communities applied mathematicians and electrical engineers who do research in the field of scientific computing in electrical engineering This of course is a wide field which is why it was decided to concentrate on selected major topics The workshop in Darmstadt which was organized by Michael Giinther from the Mathematics Department and Ursula van Rienen from the Department of Electrical Engineering and Information Technology brought together more than hundred scientists interested in numerical methods for the simulation of circuits and electromagnetic fields This was a great success Voices coming from the participants suggested that it was time to bring these communities together in order to get to know each other to discuss mutual interests and to start cooperative work A collection of selected contributions appeared in Surveys on Mathematics for Industry Vol 8 No 3 4 and Vol 9 No 2 1999 Scientific Computing in Electrical Engineering Wilhelmus H. Schilders, E. Jan W. ter Maten, Stephan H. M. J. Houben, 2014-10-05 **Scientific Computing in Electrical Engineering** Wilhelmus H. Schilders, E. Jan W. ter Maten, Stephan H. M. J. Houben, 2013-11-27 **Scientific Computing** in Electrical Engineering Ursula van Rienen, Michael Günther, Dirk Hecht, 2012-12-06 rd This book presents a collection of selected contributions presented at the 3 International Workshop on Scientific Computing in Electrical Engineering SCEE 2000 which took place in Warnemiinde Germany from August 20 to 23 2000 Nearly hundred scientists and engineers from thirteen countries gathered in Warnemiinde to participate in the conference Rostock University the oldest university in Northern Europe founded in 1419 hosted the conference This workshop followed two earlier workshops held 1997 at the Darmstadt University of Technology and 1998 at Weierstrass Institute for Applied Analysis and Stochastics in Berlin under the auspices of the German Mathematical Society These workshops aimed at bringing together two scientific communities applied mathematicians and electrical engineers who do research in the field of scientific computing in electrical engineering This of course is a wide field which is why it was decided to concentrate on selected major topics. The workshop in Darmstadt which was organized by Michael Giinther from the Mathematics Department and Ursula van Rienen from the Department of Electrical Engineering and Information Technology brought together more than hundred scientists interested in numerical

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