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Scientific Computing in Electrical Engineering

SCEE 2010



 Springer

Scientific Computing In Electrical Engineering

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Budko, Gabriela Ciuprina, Wil
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Scientific Computing In Electrical Engineering:

Scientific Computing in Electrical Engineering Angelo Marcello Anile, Giuseppe Ali, G. Mascali, 2007-01-10 This book is a collection of papers presented at the last Scientific Computing in Electrical Engineering SCEE Conference held in Sicily in 2004 The series of SCEE conferences aims at addressing mathematical problems which have a relevancy to industry The areas covered at SCEE 2004 were Electromagnetism Circuit Simulation Coupled Problems and General mathematical and computational methods

Scientific Computing in Electrical Engineering G. Ciuprina, D. Ioan, 2007-05-30 This book is a collection of selected papers presented at the last Scientific Computing in Electrical Engineering SCEE Conference held in Sinaia Romania in 2006 The series of SCEE conferences aims at addressing mathematical problems which have a relevance to industry with an emphasis on modeling and numerical simulation of electronic circuits electromagnetic fields but also coupled problems and general mathematical and computational methods

Scientific Computing in Electrical Engineering Martijn van Beurden, Neil V. Budko, Gabriela Ciuprina, Wil Schilders, Harshit Bansal, Ruxandra Barbulescu, 2024-02-29 This volume comprises selected papers presented at the 14th International Conference on Scientific Computing in Electrical Engineering SCEE 2022 held in Amsterdam The Netherlands in July 2022 The aim of the SCEE 2022 conference was to bring together scientists mathematicians electrical engineers computer scientists and physicists from universities and industry to have in depth discussions of the latest scientific results in Computational Science and Engineering relevant to Electrical Engineering and to stimulate and inspire active participation of young researchers This extensive reference work is divided into four parts Part I Circuit Simulation and Design Part II Device Simulation Part III Computational Electromagnetics Part IV Mathematical and Computational Methods Each part starts with a general introduction followed by the respective contributions The 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

Scientific Computing in Electrical Engineering Martijn van Beurden, Neil Budko, Wil Schilders, 2022-03-11 The conference has an interdisciplinary focus and aims to bring together scientists mathematicians electrical engineers computer scientists and physicists from universities and industry to have in depth discussions of the latest scientific results in Computational Science and Engineering relevant to Electrical Engineering and to stimulate and inspire active participation of young researchers

Scientific Computing in Electrical Engineering Ursula van Rienen, Michael Günther, Dirk Hecht, 2001-08-28 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 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 Ulrich Langer, Wolfgang Amrhein, Walter Zulehner, 2018-04-23. This collection of selected 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.

Scientific Computing in Electrical Engineering Angelo Marcello Anile, Giuseppe Ali, G. Mascali, 2006-08-07. This book is a collection of papers presented at the last Scientific Computing in Electrical Engineering SCEE Conference held in Sicily in 2004. The series of SCEE conferences aims at addressing mathematical problems which have a relevancy to industry. The areas covered at SCEE 2004 were Electromagnetism, Circuit Simulation, Coupled Problems and General mathematical and computational methods.

Scientific 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 Giuseppe Nicosia,Vittorio Romano,2020-09-10 This collection of selected papers presented at the 12th International Conference on Scientific Computing in Electrical Engineering SCEE 2018 held in Taormina Sicily Italy in September 2018 showcases the state of the art in SCEE The aim of the SCEE 2018 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 of electromagnetic fields This extensive reference work is divided into five parts Computational Electromagnetics Device Modeling and Simulation Circuit Simulation Mathematical and Computational Methods Model Order Reduction Each part starts with a general introduction followed by the respective contributions The 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

Scientific Computing in Electrical Engineering SCEE 2010 Bastiaan Michielsen,Jean-René Poirier,2012-01-06 Selected from papers presented at the 8th Scientific Computation in Electrical Engineering conference in Toulouse in 2010 the contributions to this volume cover every angle of numerically modelling electronic and electrical systems including computational electromagnetics circuit theory and simulation and device modelling On computational electromagnetics the chapters examine cutting edge material ranging from low frequency electrical machine modelling problems to issues in high frequency scattering Regarding circuit theory and simulation the book details the most advanced techniques for modelling networks with many thousands of components Modelling devices at microscopic levels is covered by a number of fundamental mathematical physics papers while numerous papers on model order reduction help engineers and systems designers to bring their modelling of industrial scale systems within the reach of present day computational power Complementing these more specific papers the volume also contains a selection of mathematical methods which can be used in any application domain

Scientific Computing in Electrical Engineering SCEE 2008 Luis R.J. Costa,Janne Roos,2011-07-23

Scientific Computing in Electrical Engineering Andreas Bartel,Markus Clemens,Michael Günther,E. Jan W. ter Maten,2016-05-09 This book is a collection of selected papers presented at the 10th International Conference on Scientific Computing in Electrical Engineering SCEE held in Wuppertal Germany in 2014 The book is divided into five parts reflecting the main directions of SCEE 2014 1 Device Modeling Electric Circuits and Simulation 2 Computational Electromagnetics 3 Coupled Problems 4 Model Order Reduction and 5 Uncertainty Quantification Each part

starts with a general introduction followed by the actual papers. The aim of the SCEE 2014 conference was to bring together scientists from academia and industry, mathematicians, electrical engineers, computer scientists, and physicists with the goal of fostering 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 methodological focus was on model order reduction and uncertainty quantification. This book will appeal to mathematicians and electrical engineers; it offers a valuable starting point for developers of algorithms, programs, who want to learn about recent advances in other fields, as well as open problems coming from industry. Moreover, it can be used by representatives of industry with an interest in new program tools, mathematical methods.

Scientific Computing in Electrical Engineering Wilhelmus H. Schilders, E. Jan W. ter Maten, Stephan H. M. J. Houben, 2004-08-11. This book presents the proceedings of the 4th International Workshop Scientific Computing in Electrical Engineering held in Eindhoven, The Netherlands, from June 23-28, 2002. This workshop followed three earlier workshops held in 1997 at the Darmstadt University of Technology, in 1998 at the Weierstrass Institute for Applied Analysis and Stochastics, and in 2000 at the University of Rostock. The main topics of SCEE 2002 were computational electrodynamics, circuit simulation, and coupled problems. The objective of the workshop, which was mainly directed at mathematicians and electrical engineers, was to bring together scientists from universities and industry with the goal of intensive discussions about modelling and numerical simulation of electronic circuits and electromagnetic fields. A special feature was the Industry Day, where distinguished speakers discussed the needs of industry in the field of computational electromagnetics and circuit simulation. The book contains papers of invited and contributed talks, as well as from poster presentations.

Scientific Computing in Electrical Engineering SCEE 2008 Luis R.J. Costa, Janne Roos, 2010-06-19. Scientific Computing in Electrical Engineering (SCEE) is an international conference series which started as a national German meeting held in Darmstadt 1997 and Berlin 1998, both under the auspices of the Deutscher Mathematiker Verein. The first truly international SCEE conference was organized in 2000 in Warnemünde, Germany, by the University of Rostock. In 2002, the 4th SCEE conference took place in Eindhoven, The Netherlands, jointly organized by the Eindhoven University of Technology and Philips Research Laboratories Eindhoven. The 5th SCEE conference was held in 2004 in Capo d'Orlando, Italy, jointly organized by Università di Catania and Consorzio Catania Ricerche. The venue of the 6th SCEE conference was Sinaia, Romania, in 2006, organized by the Politehnica University of Bucharest. The 7th International Conference on Scientific Computing in Electrical Engineering (SCEE 2008) was held in Espoo, Finland, from September 28 to October 3, 2008. It was 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/scee2008>.

Scientific Computing in Electrical Engineering Ursula van Rienen, Michael Günther, Dirk Hecht, 2010. This book presents a collection of selected contributions presented at the 3rd International Workshop on Scientific

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Engineering W. H. A. Schilders, S. H. M. J. Houben, 2002 *Scientific Computing* John A. Trangenstein, 2018-05-14 This is the first of three volumes providing a comprehensive presentation of the fundamentals of scientific computing This volume discusses basic principles of computation and fundamental numerical algorithms that will serve as basic tools for the subsequent two volumes This book and its companions show how to determine the quality of computational results and how to measure the relative efficiency of competing methods Readers learn how to determine the maximum attainable accuracy of algorithms and how to select the best method for computing problems This book also discusses programming in several languages including C Fortran and MATLAB There are 80 examples 324 exercises 77 algorithms 35 interactive JavaScript programs 391 references to software programs and 4 case studies Topics are introduced with goals literature references and links to public software There are descriptions of the current algorithms in LAPACK GSLIB and MATLAB This book could be used for an introductory course in numerical methods for either upper level undergraduates or first year graduate students Parts of the text could be used for specialized courses such as principles of computer languages or numerical linear algebra

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