

Series on Advances in Mathematics for Applied Sciences – Vol. 53

**ADVANCED
MATHEMATICAL &
COMPUTATIONAL TOOLS
IN METROLOGY IV**

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Advanced Mathematical And Computational Tools In Metrology Iv

Lei Huang



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Advanced Mathematical And Computational Tools In Metrology Iv Patrizia Ciarlini, Franco Pavese, Caparica D Richter, Alistair B Forbes, 2000-01-22 Advances in metrology depend on improvements in scientific and technical knowledge and in instrumentation quality as well as better use of advanced mathematical tools and development of new ones In this volume scientists from both the mathematical and the metrological fields exchange their experiences Industrial sectors such as instrumentation and software are likely to benefit from this exchange since metrology has a high impact on the overall quality of industrial products and applied mathematics is becoming more and more important in industrial processes This book is of interest to people in universities research centers and industries who are involved in measurements and need advanced mathematical tools to solve their problems and to those developing such mathematical tools

Advanced Mathematical And Computational Tools In Metrology And Testing X Franco Pavese, Wolfram Bremser, Anna G Chunovkina, Nicolas Fischer, Alistair B Forbes, 2015-04-22 This volume contains original and refereed contributions from the tenth AMCTM Conference www.nviiim.ru AMCTM2014 held in St Petersburg Russia in September 2014 on the theme of advanced mathematical and computational tools in metrology and testing The themes in this volume reflect the importance of the mathematical statistical and numerical tools and techniques in metrology and testing and also keeping the challenge promoted by the Metre Convention to access a mutual recognition for the measurement standards

Advanced Mathematical And Computational Tools In Metrology And Testing Xii Franco Pavese, Alistair B Forbes, Nien Fan Zhang, Anna G Chunovkina, 2022-01-13 This volume contains original refereed contributions by researchers from national metrology institutes universities and laboratories across the world involved in metrology and testing The volume has been produced by the International Measurement Confederation Technical Committee 21 Mathematical Tools for Measurements and is the twelfth in the series The papers cover topics in numerical analysis and computational tools statistical inference regression calibration and metrological traceability computer science and data provenance and describe applications in a wide range of application domains This volume is useful to all researchers engineers and practitioners who need to characterize the capabilities of measurement systems and evaluate measurement data It will also be of interest to scientists and engineers concerned with the reliability trustworthiness and reproducibility of data and data analytics in data driven systems in engineering environmental and life sciences

Advanced Mathematical And Computational Tools In Metrology V Patrizia Ciarlini, Maurice G Cox, Eduarda Filipe, Franco Pavese, Caparica D Richter, 2001-03-09 Advances in metrology depend on improvements in scientific and technical knowledge and in instrumentation quality as well as on better use of advanced mathematical tools and development of new ones In this volume scientists from both the mathematical and the metrological fields exchange their experiences Industrial sectors such as instrumentation and software will benefit from this exchange since metrology has a high impact on the overall quality of industrial products and applied mathematics is becoming more

and more important in industrial processes This book is of interest to people in universities research centers and industries who are involved in measurements and need advanced mathematical tools to solve their problems and also to those developing such mathematical tools

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Advanced Mathematical And Computational Tools In Metrology And Testing Xi Alistair B Forbes, Nien Fan Zhang, Anna G Chunovkina, Sascha Eichstadt, Franco Pavese, 2018-10-16 This volume contains original refereed contributions by researchers from institutions and laboratories across the world that are involved in metrology and testing They were adapted from presentations made at the eleventh edition of the Advanced Mathematical and Computational Tools in Metrology and Testing conference held at the University of Strathclyde Glasgow in September 2017 organized by IMEKO Technical Committee 21 the National Physical Laboratory UK and the University of Strathclyde The papers present new modeling approaches algorithms and computational methods for analyzing data from metrology systems and for evaluation of the measurement uncertainty and describe their applications in a wide range of measurement areas This volume is useful to all researchers engineers and practitioners who need to characterize the capabilities of measurement systems and evaluate measurement data Through the papers written by experts working in leading institutions it covers the latest computational approaches and describes applications to current measurement challenges in engineering environment and life sciences

Advanced Mathematical And Computational Tools In Metrology Vi Patrizia Ciarlini, Maurice G Cox, Franco Pavese, Giovanni Battista Rossi, Dieter Richter, 2004-07-09 This volume collects refereed contributions based on the presentations made at the Sixth Workshop on Advanced Mathematical and Computational Tools in Metrology held at the Istituto di Metrologia G Colonnetti IMGC Torino Italy in September 2003 It provides a forum for metrologists mathematicians and software engineers that will encourage a more effective synthesis of skills capabilities and resources and promotes collaboration in the context of EU programmes EUROMET and EA projects and MRA requirements It contains articles by an important worldwide group of metrologists and mathematicians involved in measurement science and together with the five previous volumes in this series constitutes an authoritative source for the mathematical statistical and software tools necessary to modern metrology The proceedings have been selected for coverage in Index to Scientific Technical Proceedings ISTEP ISI Proceedings Index to Scientific Technical Proceedings ISTEP CDROM version ISI Proceedings CC Proceedings Engineering Physical Sciences

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Approximation Algorithms for Complex Systems Emmanuil H Georgoulis, Armin Iske, Jeremy Levesley, 2011-01-04 This book collects up to date papers from world experts in a broad variety of relevant applications of approximation theory including dynamical systems multiscale modelling of fluid flow metrology and geometric modelling to mention a few The 14 papers in this volume document modern trends in approximation through recent theoretical developments important computational aspects and multidisciplinary applications The book is arranged in seven invited surveys followed by seven contributed research papers The surveys of the first seven chapters are addressing the following relevant topics emergent behaviour in large electrical networks algorithms for multivariate piecewise constant approximation anisotropic triangulation methods in adaptive image approximation form assessment in coordinate metrology discontinuous Galerkin methods for linear problems a numerical analyst's view of the lattice Boltzmann method approximation of probability measures on manifolds Moreover the diverse contributed papers of the remaining seven chapters reflect recent developments in approximation theory approximation practice and their applications Graduate students who wish to discover the state of the art in a number of important directions of approximation algorithms will find this a valuable volume Established researchers from statisticians through to fluid modellers will find interesting new approaches to solving familiar but challenging problems This book grew out of the sixth in the conference series on Algorithms for Approximation which took place from 31st August to September 4th 2009 in Ambleside in the Lake District of the United Kingdom

Multigroup Equations for the Description of the Particle Transport in Semiconductors Martin Galler, 2005 Deterministic simulation of the particle transport in semiconductor

devices is an interesting alternative to the common Monte Carlo approach In this book a state of the art technique called the multigroup approach is presented and applied to a variety of transport problems in bulk semiconductors and semiconductor devices High field effects as well as hot phonon phenomena in polar semiconductors are studied in detail The mathematical properties of the presented numerical method are studied and the method is applied to simulating the transport of a two dimensional electron gas formed at a semiconductor heterostructure Concerning semiconductor device simulation several diodes and transistors fabricated of silicon and gallium arsenide are investigated For all of these simulations the numerical techniques employed are discussed in detail This unique study of the application of direct methods for semiconductor device simulation provides the interested reader with an indispensable reference on this growing research area *Dissipative Phase Transitions* Pierluigi Colli, Nobuyuki Kenmochi, Jurgen Sprekels, 2006-03-06 Phase transition phenomena arise in a variety of relevant real world situations such as melting and freezing in a solid liquid system evaporation solid solid phase transitions in shape memory alloys combustion crystal growth damage in elastic materials glass formation phase transitions in polymers and plasticity The practical interest of such phenomenology is evident and has deeply influenced the technological development of our society stimulating intense mathematical research in this area This book analyzes and approximates some models and related partial differential equation problems that involve phase transitions in different contexts and include dissipation effects *Motor Vehicle Dynamics: Modelling And Simulation* Giancarlo Genta, 1997-04-19 The book starts with an historical overview of road vehicles The first part deals with the forces exchanged between the vehicle and the road and the vehicle and the air with the aim of supplying the physical facts and the relevant mathematical models about the forces which dominate the dynamics of the vehicle The second part deals with the dynamic behaviour of the vehicle in normal driving conditions with some extensions towards conditions encountered in high speed racing driving

Advanced Mathematical and Computational Tools in Metrology and Testing, 2009 Applied And Industrial Mathematics In Italy - Proceedings Of The 7th Conference Mario Primicerio, Renato Spigler, Vanda Valente, 2005-06-14 Industrial mathematics is evolving into an important branch of mathematics Mathematicians in Italy in particular are becoming increasingly aware of this new trend and are engaged in bridging the gap between highly specialized mathematical research and the emerging demand for innovation from industry In this respect the contributions in this volume provide both R D workers in industry with a general view of existing skills and academics with state of the art applications of mathematics to real world problems which may also be incorporated in advanced courses The proceedings have been selected for coverage in Index to Scientific Technical Proceedings ISTP ISI Proceedings Index to Scientific Technical Proceedings ISTP CDROM version ISI Proceedings CC Proceedings Engineering Physical Sciences Advanced Mathematical & Computational Tools in Metrology VII P. Ciarlini, 2006 This volume collects the refereed contributions based on the presentations made at the Seventh Workshop on Advanced Mathematical and Computational Tools in Metrology a forum for

metrologists mathematicians and software engineers that will encourage a more effective synthesis of skills capabilities and resources The volume contains articles by world renowned metrologists and mathematicians involved in measurement science and together with the six previous volumes in this series constitutes an authoritative source of the mathematical statistical and software tools necessary in modern metrology Contents Modeling Measurement Processes in Complex Systems with Partial Differential Equations From Heat Conduction to the Heart M Baer et al Mereotipological Approach for Measurement Software E Benoit Data Evaluation of Key Comparisons Involving Several Artefacts M G Cox et al Box Cox Transformations Versus Robust Control Charts in Statistical Process Control M I Gomes Decision Making Using Sensor s Data Fusion and Kohonen Self Organizing Maps P S Girao et al Generic System Design for Measurement Databases Applied to Calibrations in Vacuum Metrology Bio Signals and a Template System H Gro et al Repeated Measurements Evaluation of Their Uncertainty from the Viewpoints of Classical and Bayesian Statistics I Lira Detection of Outliers in Interlaboratory Testing and Some Thoughts About Multivariate Precision C Perruchet On Appropriate Methods for the Validation of Metrological Software D Richter et al Data Analysis A Dialogue D S Sivia Validation of a Virtual Sensor for Monitoring Ambient Parameters P Ciarlini et al Evaluation of Standard Uncertainties in Nested Structures E Filipe Linking GUM and ISO 5725 A B Forbes Monte Carlo Study on Logical and Statistical Correlation B Siebert et al Some Problems Concerning the Estimate of the Uncertainty of the Degree of Equivalence in MRA Key Comparisons F Pavese Preparing for a European Research Area Network in Metrology Where are We Now M Kuhne et al and other papers Readership Researchers graduate students academics and professionals in metrology

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Advanced Mathematical & Computational Tools in Metrology & Testing VIII Franco Pavese,Markus B[r],Alistair B. Forbes,2009 The main theme of the AMCTM 2008 conference reinforced by the establishment of IMEKO TC21 was to provide a central opportunity for the metrology and testing community worldwide to engage with applied mathematicians

statisticians and software engineers working in the relevant fields This review volume consists of reviewed papers prepared on the basis of the oral and poster presentations of the Conference participants It covers all the general matters of advanced statistical modeling e g uncertainty evaluation experimental design optimization data analysis and applications multiple measurands correlation etc metrology software e g engineering aspects requirements or specification risk assessment software development software examination software tools for data analysis visualization experiment control best practice standards etc numerical methods e g numerical data analysis numerical simulations inverse problems uncertainty evaluation of numerical algorithms applications etc and data fusion techniques and design and analysis of inter laboratory comparisons

Bayesian Inference and Maximum Entropy Methods in Science and Engineering Rainer Fischer,Roland Preuss,Udo von Toussaint,2004-11-19 All papers were peer reviewed Bayesian Inference and Maximum Entropy Methods in Science and Engineering provide a framework for analyzing ill conditioned data Maximum Entropy is a theoretical method to draw conclusions when little information is available Bayesian probability theory provides a formalism for scientific reasoning by analyzing noisy or imcomplete data using prior knowledge **Optical Metrology in Production Engineering** Wolfgang Osten,Mitsuo Takeda,2004 Includes Proceedings Vol 7821

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