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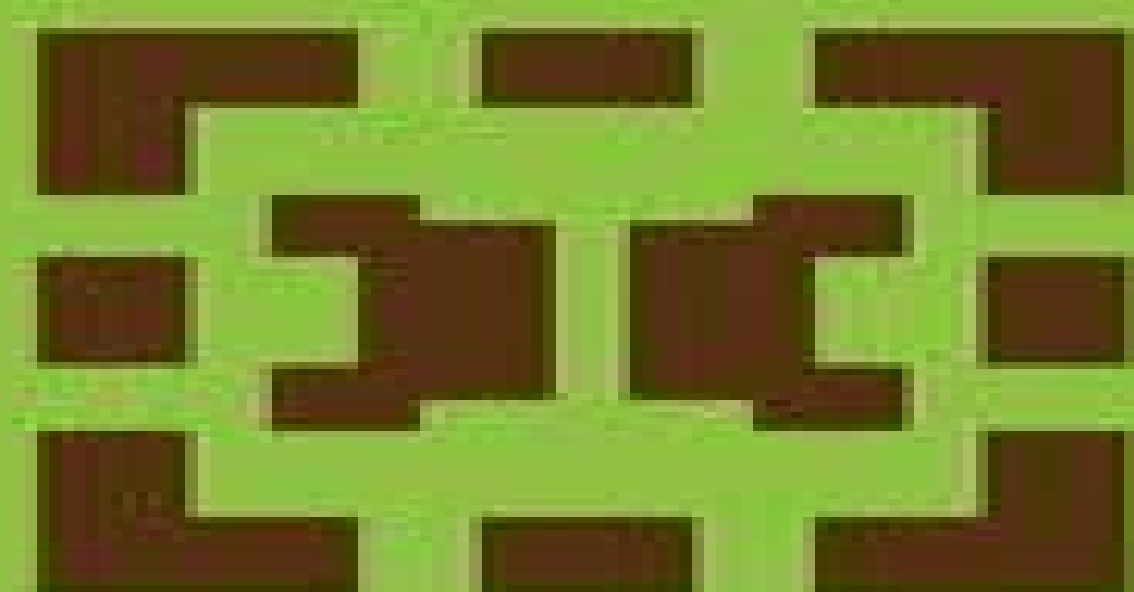
Mathematical Models In Electrical Circuits Theory And Applications

S.L. Sobolev,Vladimir Vaskevich

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Mathematical Models in Electrical Circuits: Theory and Applications C. A. Marinov,Pekka Neittaanmäki,2012-12-06 One service mathematics has rendered the Et moi si favait su comment en revenir je n y seTais point alle human race It has put common sense back Jules Verne where it belongs on the topmost shelf next to the dusty canister labelled discarded n sense The series is divergent therefore we may be Eric T Bell able to do something with it O Heaviside Mathematics is a tool for thought A highly necessary tool in a world where both feedback and non linearities abound Similarly all kinds of parts of mathematics serve as tools for other parts and for other sciences Applying a simple rewriting rule to the quote on the right above one finds such statements as One service topology has rendered mathematical physics One scrvice logic has rendered com puter science One service category theory has rendcred mathematics All arguably true And all statements obtainable this way form part of the raison d etre of this scries *VLSI Planarization* V.Z. Feinberg,A.G. Levin,E.B. Rabinovich,2012-12-06 At the beginning we would like to introduce a refinement The term VLSI planarization means planarization of a circuit of VLSI Le the embedding of a VLSI circuit in the plane by different criteria such as the minimum number of connectors the minimum total length of connectors the minimum number of over the element routes etc A connector is designed to connect the broken sections of a net It can be implemented in different ways depending on the technology Connectors for a bipolar VLSI are implemented by diffused tun nels for instance By over the element route we shall mean a connection which intersects the enclosing rectangle of an element or a cell The possibility of the construction such connections during circuit planarization is reflected in element models and can be ensured for example by the availability of areas within the rectangles where connections may be routed VLSI planarization is one of the basic stages others will be discussed below of the so called topological in the mathematical sense approach to VLSI design This approach does not lie in the direction of the classical approach to automation of VLSI layout design In the classical approach to computer aided design the placement and routing problems are solved successively The topological approach in contrast allows one to solve both problems at the same time This is achieved by constructing a planar embedding of a circuit and obtaining the proper VLSI layout on the basis of it *The Theory of Cubature Formulas* S.L. Sobolev,Vladimir Vaskevich,1997-06-30 This volume considers various methods for constructing cubature and quadrature formulas of arbitrary degree These formulas are intended to approximate the calculation of multiple and conventional integrals over a bounded domain of integration The latter is assumed to have a piecewise smooth boundary and to be arbitrary in other aspects Particular emphasis is placed on invariant cubature formulas and those for a cube a simplex and other polyhedra Here the techniques of functional analysis and partial differential equations are applied to the classical problem of numerical integration to establish many important and deep analytical properties of cubature formulas The prerequisites of the theory of many dimensional discrete function spaces and the theory of finite differences are concisely presented Special attention is

paid to constructing and studying the optimal cubature formulas in Sobolev spaces As an asymptotically optimal sequence of cubature formulas a many dimensional abstraction of the Gregory quadrature is indicated Audience This book is intended for researchers having a basic knowledge of functional analysis who are interested in the applications of modern theoretical methods to numerical mathematics **Handbook of Splines** Gheorghe Micula,Sanda Micula,2012-12-06 The purpose of this book is to give a comprehensive introduction to the theory of spline functions together with some applications to various fields emphasizing the significance of the relationship between the general theory and its applications At the same time the goal of the book is also to provide new ma terial on spline function theory as well as a fresh look at old results being written for people interested in research as well as for those who are interested in applications The theory of spline functions and their applications is a relatively recent field of applied mathematics In the last 50 years spline function theory has undergone a won derful development with many new directions appearing during this time This book has its origins in the wish to adequately describe this development from the notion of spline introduced by 1 J Schoenberg 1901 1990 in 1946 to the newest recent theories of spline wavelets or spline fractals Isolated facts about the functions now called splines can be found in the papers of L Euler A Lebesgue G Birkhoff J <u>Differential Equations And Control Theory</u> Sergiu Aizicovici,Nicolae H. Pavel,2001-10-02 Provides comprehensive coverage of the most recent developments in the theory of non Archimedean pseudo differential equations and its application to stochastics and mathematical physics offering current methods of construction for stochastic processes in the field of p adic numbers and related structures Develops a new theory for parabolic equations over non Archimedean fields in relation to Markov processes **Software Prototyping in Data and Knowledge Engineering** G. Guida,G. Lamperti,Marina Zanella,2013-03-07 This monograph describes an innovative prototyping framework for data and knowledge intensive systems The proposed approach will prove especially useful for advanced and research oriented projects that aim to develop a traditional database perspective into fully fledged advanced database approaches and knowledge engineering technologies The book is organised in two parts The first part comprising chapters 1 to 4 provides an introduction to the concept of prototyping to database and knowledge based technologies and to the main issues involved in the integration of data and knowledge engineering The second part comprising chapters 5 to 12 illustrates the proposed approach in technical detail Audience This volume will be of interest to researchers in the field of databases and knowledge engineering in general and for software designers and knowledge engineers who aim to expand their expertise in data and knowledge intensive systems **Electric Circuits And Networks (For Gtu)** Kumar K. S. Suresh,2010-09 **Feynman Integral and Random Dynamics in Quantum Physics** Z. Haba,2013-03-11 The Feynman integral is considered as an intuitive representation of quantum mechanics showing the complex quantum phenomena in a language comprehensible at a classical level It suggests that the quantum transition amplitude arises from classical mechanics by an average over various interfering paths The classical picture suggested by the Feynman integral may be

illusory By most physicists the path integral is usually treated as a convenient formal mathematical tool for a quick derivation of useful approximations in quantum mechanics Results obtained in the formalism of Feynman integrals receive a mathematical justification by means of other usually much harder methods In such a case the rigour is achieved at the cost of losing the intuitive classical insight The aim of this book is to formulate a mathematical theory of the Feynman integral literally in the way it was expressed by Feynman at the cost of complexifying the configuration space In such a case the Feynman integral can be expressed by a probability measure The equations of quantum mechanics can be formulated as equations of random classical mechanics on a complex configuration space The opportunity of computer simulations shows an immediate advantage of such a formulation A mathematical formulation of the Feynman integral should not be considered solely as an academic question of mathematical rigour in theoretical physics *Design and Analysis of Simulation Experiments* Sergey Ermakov,Viatcheslav Melas,1995-07-31 This book is devoted to a new branch of experimental design theory called simulation experimental design There are many books devoted either to the theory of experimental design or to system simulation techniques but in this book an approach to combine both fields is developed Especially the mathematical theory of such universal variance reduction techniques as splitting and Russian Roulette is explored The book contains a number of results on regression design theory related to nonlinear problems the E optimum criterion and designs which minimize bias Audience This volume will be of value to readers interested in systems simulation applied statistics and numerical methods with basic knowledge of applied statistics and linear algebra **Multigrid Methods for Finite Elements** V.V. Shaidurov,2013-03-09 Multigrid Methods for Finite Elements combines two rapidly developing fields finite element methods and multigrid algorithms At the theoretical level Shaidurov justifies the rate of convergence of various multigrid algorithms for self adjoint and non self adjoint problems positive definite and indefinite problems and singular and spectral problems At the practical level these statements are carried over to detailed concrete problems including economical constructions of triangulations and effective work with curvilinear boundaries quasilinear equations and systems Great attention is given to mixed formulations of finite element methods which allow the simplification of the approximation of the biharmonic equation the steady state Stokes and Navier Stokes problems **Electric Circuits and Networks** K. S. Suresh Kumar,K. S.. Suresh Kumar,2008-08-05 Electric Circuits and Networks is designed to serve as a textbook for a two semester undergraduate course on basic electric circuits and networks The book builds on the subject from its basic principles Spread over seventeen chapters the book can be taught with varying degree of emphasis on its six subsections based on the course requirement Written in a student friendly manner its narrative style places adequate stress on the principles that govern the behaviour of electric circuits and networks **Combined Methods for Elliptic Equations with Singularities, Interfaces and Infinities** Zi Cai Li,2013-12-01 In this book the author sets out to answer two important questions 1 Which numerical methods may be combined together 2 How can different numerical methods be matched

together In doing so the author presents a number of useful combinations for instance the combination of various FEMs the combinations of FEM FDM REM FEM RGM FDM etc The combined methods have many advantages over single methods high accuracy of solutions less CPU time less computer storage easy coupling with singularities as well as the complicated boundary conditions Since coupling techniques are essential to combinations various matching strategies among different methods are carefully discussed The author provides the matching rules so that optimal convergence even superconvergence and optimal stability can be achieved and also warns of the matching pitfalls to avoid Audience The book is intended for both mathematicians and engineers and may be used as text for advanced students   *Regularization of Ill-Posed Problems by Iteration Methods* S.F. Gilyazov,N.L. Gol'dman,2013-04-17 Iteration regularization i e utilization of iteration methods of any form for the stable approximate solution of ill posed problems is one of the most important but still insufficiently developed topics of the new theory of ill posed problems In this monograph a general approach to the justification of iteration regulari zation algorithms is developed which allows us to consider linear and nonlinear methods from unified positions Regularization algorithms are the classical iterative methods steepest descent methods conjugate direction methods gradient projection methods etc complemented by the stopping rule depending on level of errors in input data They are investigated for solving linear and nonlinear operator equations in Hilbert spaces Great attention is given to the choice of iteration index as the regularization parameter and to estimates of errors of approximate solutions Stabilizing properties such as smoothness and shape constraints imposed on the solution are used On the basis of these investigations we propose and establish efficient regularization algorithms for stable numerical solution of a wide class of ill posed problems In particular descriptive regularization algorithms utilizing a priori information about the qualitative behavior of the sought solution and ensuring a substantial saving in computational costs are considered for model and applied problems in nonlinear thermophysics The results of calculations for important applications in various technical fields a continuous casting the treatment of materials and perfection of heat protective systems using laser and composite technologies are given

Qualitative Problems For Differential Equations And Control Theory Constantin Corduneanu,1995-10-06 This book contains a collection of articles on the topics mentioned in the title or closely related to them and is dedicated to Prof Aristide Halanay from the University of Bucharest Romania in occasion of his 70th birthday The authors are in most cases former students of Halanay or research associates from the University of Bucharest the Mathematical Institute of the Romanian Academy and the Technical University of Bucharest There are contributions from mathematicians from Finland Belgium the United States of America Morocco India and Ireland The topics indicated above are in most cases related to Halanay s work and constitute significant contemporary research items in Applied Mathematics and Engineering The book is written at research level and is primarily addressing mathematicians interested in the above mentioned areas as well as research engineers The book will be also useful to graduate students with specialization in the areas listed above More than 25

authors have contributed to the volume   The Theory of Anisotropic Elastic Plates T.S. Vashakmadze,2013-11-27 The main purpose of this work is construction of the mathematical theory of elastic plates and shells by means of which the investigation of basic boundary value problems of the spatial theory of elasticity in the case of cylindrical do mains reduces to the study of two dimensional boundary value problems BVP of comparatively simple structure In this respect in sections 2 5 after the introductory material methods of re duction known in the literature as usually being based on simplifying hypotheses are studied Here in contradiction to classical methods the problems connected with construction of refined theories of anisotropic nonhomogeneous plates with variable thickness without the assumption of any physical and geometrical re strictions are investigated The comparative analysis of such reduction methods was carried out and in particular in section 5 the following fact was established the error transition occuring with substitution of a two dimensional model for the initial problem on the class of assumed solutions is restricted from below Further in section 6 Vekua s method of reduction containing regular pro cess of study of three dimensional problem is investigated In this direction the problems connected with solvability convergence of processes and construction of effective algorithms of approximate solutions are studied   Techniques in Mathematical Modelling Gautami Devar,2025-02-20 Techniques in Mathematical Modelling is a comprehensive textbook designed to provide students researchers and practitioners with a solid foundation in the principles techniques and applications of mathematical modelling We cover a wide range of topics from fundamental concepts and analytical techniques to validation methods and emerging trends Each chapter includes practical examples case studies and exercises to reinforce learning and demonstrate real world applications Our book emphasizes the interdisciplinary nature of mathematical modelling with applications in physics biology economics engineering social sciences and more We encourage hands on learning through practical exercises simulations and projects allowing readers to apply theoretical concepts to real world scenarios Additionally we explore emerging trends and challenges in the field including advancements in computational techniques data analytics and interdisciplinary collaborations Written in clear and accessible language Techniques in Mathematical Modelling caters to readers with varying levels of mathematical background making it suitable for undergraduate and graduate students as well as professionals   Applied Analysis and Differential Equations Ovidiu Carja,Ioan I. Vrabie,2007 This volume contains refereed research articles written by experts in the field of applied analysis differential equations and related topics Well known leading mathematicians worldwide and prominent young scientists cover a diverse range of topics including the most exciting recent developments A broad range of topics of recent interest are treated existence uniqueness viability asymptotic stability viscosity solutions controllability and numerical analysis for ODE PDE and stochastic equations The scope of the book is wide ranging from pure mathematics to various applied fields such as classical mechanics biomedicine and population dynamics   Electric Circuits James William Nilsson,Susan A. Riedel,2008 Designed for use in a one or two semester Introductory Circuit Analysis or Circuit Theory Courses taught in Electrical or

Computer Engineering Departments The most widely used introductory circuits textbook Emphasis is on student and instructor assessment and the teaching philosophies remain To build an understanding of concepts and ideas explicitly in terms of previous learning To emphasize the relationship between conceptual understanding and problem solving approaches To provide students with a strong foundation of engineering practices **Many-Particle Dynamics and Kinetic Equations** C. Cercignani,U.I. Gerasimenko,D.Y. Petrina,2012-12-06 As our title suggests there are two aspects in the subject of this book The first is the mathematical investigation of the dynamics of infinite systems of in teracting particles and the description of the time evolution of their states The second is the rigorous derivation of kinetic equations starting from the results of the aforementioned investigation As is well known statistical mechanics started in the last century with some papers written by Maxwell and Boltzmann Although some of their statements seemed statistically obvious we must prove that they do not contradict what me chanics predicts In some cases in particular for equilibrium states it turns out that mechanics easily provides the required justification However things are not so easy if we take a step forward and consider a gas is not in equilibrium as is e g the case for air around a flying vehicle Questions of this kind have been asked since the dawn of the kinetic theory of gases especially when certain results appeared to lead to paradoxical conclu sions Today this matter is rather well understood and a rigorous kinetic theory is emerging The importance of these developments stems not only from the need of providing a careful foundation of such a basic physical theory but also to exhibit a prototype of a mathematical construct central to the theory of non equilibrium phenomena of macroscopic size **Mathematics Applied to Engineering, Modelling, and Social Issues** Frank T. Smith,Hemen Dutta,John N. Mordeson,2019-03-14 This book presents several aspects of research on mathematics that have significant applications in engineering modelling and social matters discussing a number of current and future social issues and problems in which mathematical tools can be beneficial Each chapter enhances our understanding of the research problems in a particular an area of study and highlights the latest advances made in that area The self contained contributions make the results and problems discussed accessible to readers and provides references to enable those interested to follow subsequent studies in still developing fields Presenting real world applications the book is a valuable resource for graduate students researchers and educators It appeals to general readers curious about the practical applications of mathematics in diverse scientific areas and social problems

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