

Resolutive ideal boundaries of nonlinear resistive networks

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Abstract

In this paper, we deal with nonlinear resistive networks in the framework of modular sequence spaces, introduced by De Michele and Soardi. We consider ideal boundaries of a network and investigate Dirichlet boundary value problems for solutions of Poisson equations.

Keywords Network - Royden compactification - Dirichlet problem - Perron method

Mathematics Subject Classification 31C20 - 05C63

1 Introduction

In this paper, we consider nonlinear resistive networks in the framework of modular sequence spaces, introduced by De Michele and Soardi [7] and successively studied by Soardi [23,24]. The preceding paper [15] is devoted to developing a potential theory on the networks and the study is continued in this paper to deal with Dirichlet boundary value problems for solutions of Poisson equations on Royden type boundaries.

A network consists of a finite or countably infinite, locally finite, connected graph G = (V, E) whose oriented edges $[x, y] \in E^o$ $(x, y \in V)$ are assigned a relation

$$v([x, y]) = r_{(x,y)}(I([x, y]))$$

between the voltage v([x, y]) and the current I([x, y]) flowing in [x, y]. The resistance functions $r_{[x,y]}$ for (non-oriented) edges $\{x,y\} \in E$ are assumed to be continuous, odd, strictly increasing and infinite at infinity. Moreover they are required to satisfy a uniform variation condition which will be specified in Sect. 2. The network is energized



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Nonlinear Networks Alan N. Willson, 1975 Introduction to Nonlinear Network Theory Leon O. Chua, 1969 **Introduction to Nonlinear Network Theory** ,1978 *Introduction to Nonlinear Circuits and Networks* Bharathwaj Muthuswamy, Santo Banerjee, 2018-10-26 This course based text revisits classic concepts in nonlinear circuit theory from a very much introductory point of view the presentation is completely self contained and does not assume any prior knowledge of circuit theory It is simply assumed that readers have taken a first year undergraduate course in differential and integral calculus along with an elementary physics course in classical mechanics and electrodynamics Further it discusses topics not typically found in standard textbooks such as nonlinear operational amplifier circuits nonlinear chaotic circuits and memristor networks Each chapter includes a set of illustrative and worked examples along with end of chapter exercises and lab exercises using the QUCS open source circuit simulator Solutions and other material are provided on the YouTube channel created for this book by the authors Introduction to Nonlinear Network Theory Leon O. Chua, 1978 Resistive Nonlinear Networks Leon O. Chua, 1978 The Circuits and Filters Handbook (Five Volume Slipcase Set) Wai-Kai Chen, 2018-12-14 Standard setting groundbreaking authoritative comprehensive these often overused words perfectly describe The Circuits and Filters Handbook Third Edition This standard setting resource has documented the momentous changes that have occurred in the field of electrical engineering providing the most comprehensive coverage available More than 150 contributing experts offer in depth insights and enlightened perspectives into standard practices and effective techniques that will make this set the first and most likely the only tool you select to help you with problem solving In its third edition this groundbreaking bestseller surveys accomplishments in the field providing researchers and designers with the comprehensive detail they need to optimize research and design All five volumes include valuable information on the emerging fields of circuits and filters both analog and digital Coverage includes key mathematical formulas concepts definitions and derivatives that must be mastered to perform cutting edge research and design The handbook avoids extensively detailed theory and instead concentrates on professional applications with numerous examples provided throughout The set includes more than 2500 illustrations and hundreds of references Available as a comprehensive five volume set each of the subject specific volumes can also be purchased separately **Introduction to Nonlinear Network Theory: Dynamic nonlinear networks** Leon O. Chua,1978 The Circuits and Filters Handbook Wai-Kai Chen, 2002-12-23 A bestseller in its first edition The Circuits and Filters Handbook has been thoroughly updated to provide the most current most comprehensive information available in both the classical and emerging fields of circuits and filters both analog and digital This edition contains 29 new chapters with significant additions in the areas of computer Graphs and Networks Armen H. Zemanian, 2012-12-06 Scientia Gratiii Scientiae It is now thirteen years since the first book that discusses transfinite graphs and electrical networks appeared 50 This was followed by two more books 51 and 54 which

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Computer Methods for Circuit Analysis and Design Jirí Scientific and Technical Aerospace Reports ,1976-10 Vlach, Kishore Singhal, 1983-08-31 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 service logic has rendered computer science One service category theory has rendered mathematics All arguably true And all statements obtainable this way form part of the raison d etre of this scries The Bounding Approach to VLSI Circuit Simulation C.A. Zukowski, 2013-11-11 This book proposes a new approach to circuit simulation that is still in its infancy The reason for publishing this work as a monograph at this time is to quickly distribute these ideas to the research community for further study The book is based on a doctoral dissertation undertaken at MIT between 1982 and 1985 In 1982 the author joined a research group that was applying bounding techniques to simple VLSI

timing analysis models The conviction that bounding analysis could also be successfully applied to sophisticated digital MOS circuit models led to the research presented here Acknowledgments me author would like to acknowledge many helpful discussions and much support from his research group at MIT including Lance Glasser John Wyatt Jr and Paul Penfield Jr Many others have also contributed to this work in some way including Albert Ruchli Mark Horowitz Rich Zippel Chtis Terman Jacob White Mark Matson Bob Armstrong Steve McCormick Cyrus Bamji John Wroclawski Omar Wing Gary Dare Paul Bassett and Rick LaMaire The author would like to give special thanks to his wife Deborra for her support and many contributions to the presentation of this research The author would also like to thank his parents for their encouragement and IBM for its financial support of t I Jis project through a graduate fellowship THE BOUNDING APPROACH TO VLSI CIRCUIT SIMULATION 1 INTRODUCTION The VLSI revolution of the 1970 s has created a need for new circuit analysis techniques Advances in Chaos Theory and Intelligent Control Ahmad Taher Azar, Sundarapandian Vaidyanathan, 2016-04-15 The book reports on the latest advances in and applications of chaos theory and intelligent control Written by eminent scientists and active researchers and using a clear matter of fact style it covers advanced theories methods and applications in a variety of research areas and explains key concepts in modeling analysis and control of chaotic and hyperchaotic systems Topics include fractional chaotic systems chaos control chaos synchronization memristors jerk circuits chaotic systems with hidden attractors mechanical and biological chaos and circuit realization of chaotic systems. The book further covers fuzzy logic controllers evolutionary algorithms swarm intelligence and petri nets among other topics Not only does it provide the readers with chaos fundamentals and intelligent control based algorithms it also discusses key applications of chaos as well as multidisciplinary solutions developed via intelligent control The book is a timely and comprehensive reference guide for graduate students researchers and practitioners in the areas of chaos theory and intelligent control Neural Information Processing Systems Dana Z. Anderson, 1988-01-01 Papers comprising this volume were presented at the first IEEE Conference on title held in Denver Co Nov 1987 As the limits of the digital computer become apparent interest in neural networks has intensified Ninety contributions discuss what neural networks can do addressing topics that in Parallel Processing on VLSI Arrays Josef A. Nossek, 2012-12-06 Guest Editor JOSEF A NOSSEK This is a special issue of the Journal of VLSI Signal Processing comprising eight contributions invited for publica tion on the basis of novel work presented in a special session on Parallel Processing on VLSI Arrays at the International Symposium on Circuits and Systems ISCAS held in New Orleans in May 1990 Massive parallelism to cope with high speed requirements stemming from real time applications and the restrictions in architectural and circuit design such as regularity and local connectedness brought about by the VLSI technology are the key questions addressed in these eight papers They can be grouped into three subsections elaborating on Simulation of continuous physical systems i e numerically solving partial differential equations Neural architectures for image processing and pattern recognition Systolic architectures for

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