



Nonlinear Waves In Networks

Emmanuel Kengne, WuMing Liu



Nonlinear Waves In Networks:

Nonlinear Waves in Networks Felix Ali Mehmeti,1994-09-27 The main topic of this text is the well posedness locally in time of quasilinear wave equations on one dimensional networks with linear transmission conditions Such problems arise for example in the modelling of transversal vibrations of networks of strings The setting serves as a model case for the systematic study with T Kato s theory of the phenomenon of nonlinear compatibility conditions arising if we desire regular solutions This phenomenon is bound to occur always if we combine hyperbolic evolution with all kinds of coupling conditions We explain the connections of the results to a concept for the description of complicated interactions between media of possibly varying space dimension with time evolution previously developed by the author A strategy for physical legitimations of linear mechanical coupling models the systematic derivation of physical laws and of the asymptotics of frequencies of eigenmodes are outlined As applications of this interaction concept small vibrations of membranes with conic boundary points and a membrane string coupling are considered

Nonlinear Waves Emmanuel Kengne,WuMing Liu,2023-02-23 This book highlights the methods to engineer dissipative and magnetic nonlinear waves propagating in nonlinear systems In the first part of the book the authors present methodologically mathematical models of nonlinear waves propagating in one and two dimensional nonlinear transmission networks without with dissipative elements Based on these models the authors investigate the generation and the transmission of nonlinear modulated waves in general and solitary waves in particular in networks under consideration In the second part of the book the authors develop basic theoretical results for the dynamics matter wave and magnetic wave solitons of nonlinear systems and of Bose Einstein condensates trapped in external potentials combined with the time modulated nonlinearity The models treated here are based on one two and three component non autonomous Gross Pitaevskii equations Based on the Heisenberg model of spin spin interactions the authors also investigate the dynamics of magnetization in ferromagnet with or without spin transfer torque This research book is suitable for physicists mathematicians engineers and graduate students in physics mathematics and network and information engineering

Quantum-theoretical Formalism for Inhomogeneous Graded-index Waveguides Sergej G. Krivoshlykov,1994
Nonlinearity ,2005 *Scientific and Technical Aerospace Reports* ,1990 **Artificial Neural Networks** K. Mäkisara,O. Simula,J. Kangas,T. Kohonen,1991-06-20 This two volume proceedings compiles a selection of research papers presented at the ICANN 91 The scope of the volumes is interdisciplinary ranging from mathematics and engineering to cognitive sciences and biology European research is well represented Volume 1 contains all the orally presented papers including both invited talks and submitted papers Volume 2 contains the plenary talks and the poster presentations **BTL Talks and Papers** Bell Telephone Laboratories, inc. Technical Information Libraries,1969 *Bell Laboratories Talks and Papers* Bell Telephone Laboratories. Libraries and Information Systems Center,1968 **Cellular Neural Networks and Image Processing** Tao Yang,2002 Yang who is not identified applies the design principles of cellular image operators to a

hardware platform called cellular neural network CNN a VLSI oriented vision chip invented in 1988 Having presented different local rules in previous works he here examines many local rule classes that can be implemented by a CNN exploiting such unique characteristics as its ability to process three source images in parallel and so define computations among the three The study is second in his trilogy on cellular image processing algorithms and cellular hardware platforms Annotation copyrighted by Book News Inc Portland OR **Air Force Research Resumés** , *IEEE Transactions on Microwave Theory and Techniques* ,1953 **Network Flows and Monotropic Optimization** R. T. Rockafellar,1984-05-28

Describes optimization problem in which duality is an important computational tool including network and linear programming Introduces monotropic programming a new form of mathematical programming developed by the author

Modeling Natural Phenomena via Cellular Nonlinear Networks Angela Slavova,Pietro Zecca,2018-01-23 This book presents a study of neuroscience models and natural phenomena such as tsunami waves and tornados The first part discusses various mathematical models of tsunamis including the Korteweg de Vries equation shallow water equations and the Camassa Holm equation CH In order to study the dynamics of these models the text uses the Cellular Nonlinear Networks CNN approach to discretize the governing equation using a suitable mathematical grid The second part discusses some of the models arising in the field of neuroscience It examines the Fitzhugh Nagumo systems which are very important for understanding the qualitative nature of nerve impulse propagation The volume will be of interest to a wide ranging audience including PhD students mathematicians physicists engineers and specialists in the domain of nonlinear waves and their applications **Nonlinear Waves** Lokenath Debnath,2009-01-08 The outcome of a conference held in East Carolina University in June 1982 this book provides an account of developments in the theory and application of nonlinear waves in both fluids and plasmas Twenty two contributors from eight countries here cover all the main fields of research including nonlinear water waves K dV equations solitons and inverse scattering transforms stability of solitary waves resonant wave interactions nonlinear evolution equations nonlinear wave phenomena in plasmas recurrence phenomena in nonlinear wave systems and the structure and dynamics of envelope solitons in plasmas **Journal of the Physical Society of Japan** ,1981 OAR Cumulative Index of Research Results , **Science Abstracts** ,1993 1993 IEEE International Symposium on Circuits and Systems ,1993 **Soviet Physics, Uspekhi** ,1980 IEEE International Symposium on Circuits and Systems IEEE Circuits and Systems Society,1993

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