

DE GRUYTER

*Petr P. Mosolov, Viktor P. Maslov*

# **NONLINEAR WAVE EQUATIONS PERTURBED BY VISCOUS TERMS**

DE GRUYTER EXPOSITIONS IN MATHEMATICS

# Nonlinear Wave Equations Perturbed By Viscous Terms

**Péter Nagy, Karl Strambach**



### **Nonlinear Wave Equations Perturbed By Viscous Terms:**

*Nonlinear Wave Equations Perturbed by Viscous Terms* V. P. Maslov ((Viktor Pavlovich)), Petr Petrovich Mosolov, 2000  
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**Linear and Nonlinear Waves in Microstructured Solids** Igor V. Andrianov, Jan Awrejcewicz, Vladyslav Danishevskyy, 2021-04-22 This book uses asymptotic methods to obtain simple approximate analytic solutions to various problems within mechanics notably wave processes in heterogeneous materials Presenting original solutions to common issues within mechanics this book builds upon years of research to demonstrate the benefits of implementing asymptotic

techniques within mechanical engineering and material science Focusing on linear and nonlinear wave phenomena in complex micro structured solids the book determines their global characteristics through analysis of their internal structure using homogenization and asymptotic procedures in line with the latest thinking within the field The book s cutting edge methodology can be applied to optimal design non destructive control and in deep seismic sounding providing a valuable alternative to widely used numerical methods Using case studies the book covers topics such as elastic waves in nonhomogeneous materials regular and chaotic dynamics based on continualisation and discretization and vibration localization in 1D Linear and Nonlinear lattices The book will be of interest to students research engineers and professionals specialising in mathematics and physics as well as mechanical and civil engineering

**Error Calculus for Finance and Physics** Nicolas Bouleau, 2008-08-22 Many recent advances in modelling within the applied sciences and engineering have focused on the increasing importance of sensitivity analyses For a given physical financial or environmental model increased emphasis is now placed on assessing the consequences of changes in model outputs that result from small changes or errors in both the hypotheses and parameters The approach proposed in this book is entirely new and features two main characteristics Even when extremely small errors possess biases and variances The methods presented here are able thanks to a specific differential calculus to provide information about the correlation between errors in different parameters of the model as well as information about the biases introduced by non linearity The approach makes use of very powerful mathematical tools Dirichlet forms which allow one to deal with errors in infinite dimensional spaces such as spaces of functions or stochastic processes The method is therefore applicable to non elementary models along the lines of those encountered in modern physics and finance This text has been drawn from presentations of research done over the past ten years and that is still ongoing The work was presented in conjunction with a course taught jointly at the Universities of Paris 1 and Paris 6 The book is intended for students researchers and engineers with good knowledge in probability theory

**Compositions of Quadratic Forms** Daniel B. Shapiro, 2011-06-24 The aim of the Expositions is to present new and important developments in pure and applied mathematics Well established in the community over more than two decades the series offers a large library of mathematical works including several important classics The volumes supply thorough and detailed expositions of the methods and ideas essential to the topics in question In addition they convey their relationships to other parts of mathematics The series is addressed to advanced readers interested in a thorough study of the subject Editorial Board Lev Birbrair Universidade Federal do Cear Fortaleza Brasil Walter D Neumann Columbia University New York USA Markus J Pflaum University of Colorado Boulder USA Dierk Schleicher Jacobs University Bremen Germany Katrin Wendland University of Freiburg Germany Honorary Editor Victor P Maslov Russian Academy of Sciences Moscow Russia Titles in planning include Yuri A Bahturin Identical Relations in Lie Algebras 2019 Yakov G Berkovich Lev G Kazarin and Emmanuel M Zhmud Characters of Finite Groups Volume 2 2019 Jorge Herbert Soares de Lira Variational Problems for

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**Trigonometric Sums in Number Theory and Analysis** Gennady I. Arkhipov, Vladimir N. Chubarikov, Anatoly A. Karatsuba, 2008-08-22 The book presents the theory of multiple trigonometric sums constructed by the authors Following a unified approach the authors obtain estimates for these sums similar to the classical I M Vinogradov's estimates and use them to solve several problems in analytic number theory They investigate trigonometric integrals which are often encountered in physics mathematical statistics and analysis and in addition they present purely arithmetic results concerning the solvability of equations in integers *Structure Theory* Helmut Strade, 2008-08-22 The problem of classifying the finite dimensional simple Lie algebras over fields of characteristic  $p \neq 0$  is a long standing one Work on this question during the last 45 years has been directed by the Kostrikin Shafarevich Conjecture of 1966 which states that over an algebraically closed field of characteristic  $p \neq 5$  a finite dimensional restricted simple Lie algebra is classical or of Cartan type This conjecture was proved for  $p \neq 7$  by Block and Wilson in 1988 The generalization of the Kostrikin Shafarevich Conjecture for the general case of not necessarily restricted Lie algebras and  $p \neq 7$  was announced in 1991 by Strade and Wilson and eventually proved by Strade in 1998 The final Block Wilson Strade Premet Classification Theorem is a landmark result of modern mathematics and can be formulated as follows Every finite dimensional simple Lie algebra over an algebraically closed field of characteristic  $p \neq 3$  is of classical Cartan or Melikian type In the three volume book the author is assembling the proof of the Classification Theorem with explanations and references The goal is a state of the art account on the structure and classification theory of Lie algebras over fields of positive characteristic leading to the forefront of current research in this field This first volume is devoted to preparing the ground for the classification work to be performed in the second and third volume The concise presentation of the general theory underlying the subject matter and the presentation of classification results on a subclass of the simple Lie algebras for all odd primes make this volume an invaluable source and reference for all research mathematicians and advanced graduate students in algebra **Conformal Geometry of Discrete Groups and Manifolds** Boris N. Apanasov, 2011-06-24 The aim of the Expositions is to present new and important developments in pure and applied mathematics Well established in the community over more than two decades the series offers a large library of mathematical

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*Loops in Group Theory and Lie Theory* Péter Nagy, Karl Strambach, 2011-06-24 In this book the theory of binary systems is considered as a part of group theory and in particular within the framework of Lie groups The novelty is the consequent treatment of topological and differentiable loops as topological and differentiable sections in Lie groups The interplay of methods and tools from group theory differential geometry and topology symmetric spaces topological geometry and the theory of foliations is what gives a special flavour to the results presented in this book It is the first monograph devoted to the study of global loops So far books on differentiable loops deal with local loops only This theory can only be used partially for the theory of global loops since non associative local structures have in general no global forms The text is addressed to researchers in non associative algebra and foundations of geometry It should prove enlightening to a broad range of readers including mathematicians working in group theory the theory of Lie groups in differential and topological geometry and in algebraic groups The authors have produced a text that is suitable not only for a graduate course but also for selfstudy in the subject by interested graduate students Moreover the material presented can be used for lectures and seminars in algebra topological algebra and geometry

**Nonlinear Waves in Elastic Crystals** Gérard A. Maugin, 1999 The mathematical modelling of changing structures in materials is of increasing importance to industry where applications of the theory are found in subjects as diverse as aerospace and medicine This book deals with aspects of the nonlinear dynamics of deformable ordered solids known as elastic crystals where the nonlinear effects combine or compete with each other Physical and mathematical models are discussed and computational aspects are also included Different models are considered on discrete as well as continuum scales applying heat electricity or magnetism to the crystal structure and these are analysed using the equations of rational mechanics In this way the student is introduced to the important equations of nonlinear science that describe shock waves solitons and chaos and also the non exactly integrable systems or partial differential equations A large number of problems and examples are included many taken from recent research and involving both one dimensional and two dimensional

problems as well as some coupled degrees of freedom

#### Embedding Problems in Symplectic Geometry Felix

Schlenk, 2008-08-22 Symplectic geometry is the geometry underlying Hamiltonian dynamics and symplectic mappings arise as time 1 maps of Hamiltonian flows The spectacular rigidity phenomena for symplectic mappings discovered in the last two decades show that certain things cannot be done by a symplectic mapping For instance Gromov's famous non-squeezing theorem states that one cannot map a ball into a thinner cylinder by a symplectic embedding The aim of this book is to show that certain other things can be done by symplectic mappings This is achieved by various elementary and explicit symplectic embedding constructions such as folding wrapping and lifting These constructions are carried out in detail and are used to solve some specific symplectic embedding problems The exposition is self-contained and addressed to students and researchers interested in geometry or dynamics

#### **Automatic Sequences** von Friedrich Haeseler, 2008-08-22

Automatic sequences are sequences which are produced by a finite automaton Although they are not random they may look as being random They are complicated in the sense of not being not ultimately periodic they may look rather complicated in the sense that it may not be easy to name the rule by which the sequence is generated however there exists a rule which generates the sequence The concept automatic sequences has special applications in algebra number theory finite automata and formal languages combinatorics on words The text deals with different aspects of automatic sequences in particular a general introduction to automatic sequences the basic combinatorial properties of automatic sequences the algebraic approach to automatic sequences geometric objects related to automatic sequences

#### *Analytical And Numerical Methods For Wave*

*Propagation In Fluid Media* Krzysztof Murawski, 2002-11-06 This book surveys analytical and numerical techniques appropriate to the description of fluid motion with an emphasis on the most widely used techniques exhibiting the best performance Analytical and numerical solutions to hyperbolic systems of wave equations are the primary focus of the book In addition many interesting wave phenomena in fluids are considered using examples such as acoustic waves the emission of air pollutants magnetohydrodynamic waves in the solar corona solar wind interaction with the planet Venus and ion acoustic solitons

#### **Products of Finite Groups** Adolfo Ballester-Bolinches, Ramon Esteban-Romero, Mohamed Asaad, 2010

The study of finite groups factorised as a product of two or more subgroups has become a subject of great interest during the last years with applications not only in group theory but also in other areas like cryptography and coding theory It has experienced a big impulse with the introduction of some permutability conditions The aim of this book is to gather order and examine part of this material including the latest advances made give some new approach to some topics and present some new subjects of research in the theory of finite factorised groups Some of the topics covered by this book include groups whose subnormal subgroups are normal permutable or Sylow permutable products of nilpotent groups and an exhaustive structural study of totally and mutually permutable products of finite groups and their relation with classes of groups This monograph is mainly addressed to graduate students and senior researchers interested in the study of products and permutability of finite groups

A background in finite group theory and a basic knowledge of representation theory and classes of groups is recommended to follow it     **Spectral and High Order Methods for Partial Differential Equations ICOSAHOM 2016** Marco L.

Bittencourt, Ney A. Dumont, Jan S. Hesthaven, 2017-11-07 This book features a selection of high quality papers chosen from the best presentations at the International Conference on Spectral and High Order Methods 2016 offering an overview of the depth and breadth of the activities within this important research area The carefully reviewed papers provide a snapshot of the state of the art while the extensive bibliography helps initiate new research directions     **Trend and Applications of**

**Mathematics to Mechanics** S. Rionero, G. Romano, 2006-09-11 The book provides a collection of recent theoretical and methodological advances which can provide support and stimulus to scientists and scholars involved in research activity in the fields of interest     **Simple Lie Algebras Over Fields of Positive Characteristic: Structure theory** Helmut

Strade, 2004 The problem of classifying the finite dimensional simple Lie algebras over fields of characteristic  $p > 0$  is a long standing one Work on this question during the last 45 years has been directed by the Kostrikin Shafarevich Conjecture of 1966 which states that over an algebraically closed field of characteristic  $p \geq 5$  a finite dimensional restricted simple Lie algebra is classical or of Cartan type This conjecture was proved for  $p \geq 7$  by Block and Wilson in 1988 The generalization of the Kostrikin Shafarevich Conjecture for the general case of not necessarily restricted Lie algebras and  $p \geq 7$  was announced in 1991 by Strade and Wilson and eventually proved by Strade in 1998 The final Block Wilson Strade Premet Classification Theorem is a landmark result of modern mathematics and can be formulated as follows Every finite dimensional simple Lie algebra over an algebraically closed field of characteristic  $p \geq 3$  is of classical Cartan or Melikian type In the three volume book the author is assembling the proof of the Classification Theorem with explanations and references The goal is a state of the art account on the structure and classification theory of Lie algebras over fields of positive characteristic leading to the forefront of current research in this field This first volume is devoted to preparing the ground for the classification work to be performed in the second and third volume The concise presentation of the general theory underlying the subject matter and the presentation of classification results on a subclass of the simple Lie algebras for all odd primes make this volume an invaluable source and reference for all research mathematicians and advanced graduate students in algebra     **Extension**

**of Holomorphic Functions** Marek Jarnicki, Peter Pflug, 2011-06-24 The aim of the Expositions is to present new and important developments in pure and applied mathematics Well established in the community over more than two decades the series offers a large library of mathematical works including several important classics The volumes supply thorough and detailed expositions of the methods and ideas essential to the topics in question In addition they convey their relationships to other parts of mathematics The series is addressed to advanced readers interested in a thorough study of the subject Editorial Board Lev Birbrair Universidade Federal do Cear Fortaleza Brasil Walter D Neumann Columbia University New York USA Markus J Pflaum University of Colorado Boulder USA Dierk Schleicher Jacobs University Bremen Germany Katrin



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**Tropical and Idempotent Mathematics and Applications** Grigoriĭ Lazarevich Litvinov, S. N. Sergeev, 2014 This volume contains the proceedings of the International Workshop on Tropical and Idempotent Mathematics held at the Independent University of Moscow Russia from August 26–31 2012 The main purpose of the conference was to bring together and unite researchers and specialists in various areas of tropical and idempotent mathematics and applications This volume contains articles on algebraic foundations of tropical mathematics as well as articles on applications of tropical mathematics in various fields as diverse as economics electroenergetic networks chemical reactions representation theory and foundations of classical thermodynamics This volume is intended for graduate students and researchers interested in tropical and idempotent mathematics or in their applications in other areas of mathematics and in technical sciences

## Reviewing **Nonlinear Wave Equations Perturbed By Viscous Terms**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Nonlinear Wave Equations Perturbed By Viscous Terms**," an enthralling opus penned by a very acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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