
Lectures on Non-Linear Wave Equations

Second Edition

Christopher D. Sogge

Johns Hopkins University



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Lectures On Non Linear Wave Equations Second Edition

Sergiu Klainerman, Francesco Nicolò



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Lectures on Non-linear Wave Equations Christopher Donald Sogge, 2008 Presents an account of the basic facts concerning the linear wave equation and the methods from harmonic analysis that are necessary when studying nonlinear hyperbolic differential equations This book examines quasilinear equations with small data where the Klainerman Sobolev inequalities and weighted space time estimates are introduced *Lectures on Nonlinear Hyperbolic Differential Equations* Lars Hörmander, 1997-07-17 In this introductory textbook a revised and extended version of well known lectures by L Hörmander from 1986 four chapters are devoted to weak solutions of systems of conservation laws Apart from that the book only studies classical solutions Two chapters concern the existence of global solutions or estimates of the lifespan for solutions of nonlinear perturbations of the wave or Klein Gordon equation with small initial data Four chapters are devoted to microanalysis of the singularities of the solutions This part assumes some familiarity with pseudodifferential operators which are standard in the theory of linear differential operators but the extension to the more exotic classes of operators needed in the nonlinear theory is presented in complete detail **Lectures on Nonlinear Evolution Equations** Reinhard Racke, 2015-08-31 This book mainly serves as an elementary self contained introduction to several important aspects of the theory of global solutions to initial value problems for nonlinear evolution equations The book employs the classical method of continuation of local solutions with the help of a priori estimates obtained for small data The existence and uniqueness of small smooth solutions that are defined for all values of the time parameter are investigated Moreover the asymptotic behaviour of the solutions is described as time tends to infinity The methods for nonlinear wave equations are discussed in detail Other examples include the equations of elasticity heat equations the equations of thermoelasticity Schrödinger equations Klein Gordon equations Maxwell equations and plate equations To emphasize the importance of studying the conditions under which small data problems offer global solutions some blow up results are briefly described Moreover the prospects for corresponding initial boundary value problems and for open questions are provided In this second edition initial boundary value problems in waveguides are additionally considered **Classical and Multilinear Harmonic Analysis: Volume 1** Camil Muscalu, Wilhelm Schlag, 2013-01-31 This two volume text in harmonic analysis introduces a wealth of analytical results and techniques It is largely self contained and will be useful to graduate students and researchers in both pure and applied analysis Numerous exercises and problems make the text suitable for self study and the classroom alike This first volume starts with classical one dimensional topics Fourier series harmonic functions Hilbert transform Then the higher dimensional Calderón Zygmund and Littlewood Paley theories are developed Probabilistic methods and their applications are discussed as are applications of harmonic analysis to partial differential equations The volume concludes with an introduction to the Weyl calculus The second volume goes beyond the classical to the highly contemporary and focuses on multilinear aspects of harmonic analysis the bilinear Hilbert transform Coifman Meyer theory Carleson's

resolution of the Lusin conjecture Calderón's commutators and the Cauchy integral on Lipschitz curves The material in this volume has not previously appeared together in book form *Classical and Multilinear Harmonic Analysis* Camil Muscalu, Wilhelm Schlag, 2013-01-31 This contemporary graduate level text in harmonic analysis introduces the reader to a wide array of analytical results and techniques Foundations of General Relativity Klaas Landsman, 2021-10-08 This book dedicated to Roger Penrose is a second mathematically oriented course in general relativity It contains extensive references and occasional excursions in the history and philosophy of gravity including a relatively lengthy historical introduction The book is intended for all students of general relativity of any age and orientation who have a background including at least first courses in special and general relativity differential geometry and topology The material is developed in such a way that through the last two chapters the reader may acquire a taste of the modern mathematical study of black holes initiated by Penrose Hawking and others as further influenced by the initial value or PDE approach to general relativity Successful readers might be able to begin reading research papers on black holes especially in mathematical physics and in the philosophy of physics The chapters are Historical introduction General differential geometry Metric differential geometry Curvature Geodesics and causal structure The singularity theorems of Hawking and Penrose The Einstein equations The 3+1 split of space time Black holes I Exact solutions and Black holes II General theory These are followed by two appendices containing background on Lie groups Lie algebras constant curvature and on Formal PDE theory **Lectures on Numerical Methods for Non-Linear Variational Problems** R. Glowinski, 2008-01-22 When Herb Keller suggested more than two years ago that we update our lectures held at the Tata Institute of Fundamental Research in 1977 and then have it published in the collection Springer Series in Computational Physics we thought at first that it would be an easy task Actually we realized very quickly that it would be more complicated than what it seemed at first glance for several reasons 1 The first version of Numerical Methods for Nonlinear Variational Problems was in fact part of a set of monographs on numerical mathematics published in a short span of time by the Tata Institute of Fundamental Research in its well known series Lectures on Mathematics and Physics as might be expected the first version systematically used the material of the above monographs this being particularly true for Lectures on the Finite Element Method by P G Ciarlet and Lectures on Optimization Theory and Algorithms by J Cea This second version had to be more self contained This necessity led to some minor additions in Chapters I-IV of the original version and to the introduction of a chapter namely Chapter V of this book on relaxation methods since these methods play an important role in various parts of this book **Stochastic Analysis: A Series of Lectures** Robert C. Dalang, Marco Dozzi, Franco Flandoli, Francesco Russo, 2015-07-28 This book presents in thirteen refereed survey articles an overview of modern activity in stochastic analysis written by leading international experts The topics addressed include stochastic fluid dynamics and regularization by noise of deterministic dynamical systems stochastic partial differential equations driven by Gaussian or Lévy noise including the relationship between parabolic equations and particle

systems and wave equations in a geometric framework Malliavin calculus and applications to stochastic numerics stochastic integration in Banach spaces porous media type equations stochastic deformations of classical mechanics and Feynman integrals and stochastic differential equations with reflection The articles are based on short courses given at the Centre Interfacultaire Bernoulli of the Ecole Polytechnique F d rale de Lausanne Switzerland from January to June 2012 They offer a valuable resource not only for specialists but also for other researchers and Ph D students in the fields of stochastic analysis and mathematical physics Contributors S Albeverio M Arnaudon V Bally V Barbu H Bessaih Z Brze niak K Burdzy A B Cruzeiro F Flandoli A Kohatsu Higa S Mazzucchi C Mueller J van Neerven M Ondrej t S Peszat M Veraar L Weis J C Zambrini

Accelerating Expansion Gordon Belot,2023-08-24 Accelerating Expansion explores some of the philosophical implications of modern cosmology focused on the significance that the discovery of the accelerating expansion of the Universe has for our understanding of time geometry and physics The appearance of the cosmological constant in the equations of general relativity allows one to model universes in which space has an inherent tendency towards expansion This constant introduced by Einstein but subsequently abandoned by him returned to centre stage with the discovery of the accelerating expansion This pedagogically oriented essay begins with a study of the most basic and elegant relativistic world that involves a positive cosmological constant de Sitter spacetime It then turns to the relatives of de Sitter spacetime that dominate modern relativistic cosmology Some of the topics considered include the nature of time and simultaneity in de Sitter worlds the sense in which de Sitter spacetime is a powerful dynamical attractor the limited extent to which observation can give us information about the topology of space in a world undergoing accelerated expansion and cosmologists favourite sceptical worry about the reliability of evidence and the possibility of knowledge the problem of Boltzmann brains

Nonlinear Water Waves with Applications to Wave-Current Interactions and Tsunamis Adrian Constantin,2011-12-01 This overview of some of the main results and recent developments in nonlinear water waves presents fundamental aspects of the field and discusses several important topics of current research interest It contains selected information about water wave motion for which advanced mathematical study can be pursued enabling readers to derive conclusions that explain observed phenomena to the greatest extent possible The author discusses the underlying physical factors of such waves and explores the physical relevance of the mathematical results that are presented The book is intended for mathematicians physicists and engineers interested in the interplay between physical concepts and insights and the mathematical ideas and methods that are relevant to specific water wave phenomena The material is an expanded version of the author s lectures delivered at the NSF CBMS Regional Research Conference in the Mathematical Sciences organized by the Mathematics Department of the University of Texas Pan American in 2010 [Oscillating Patterns in Image Processing and Nonlinear Evolution Equations](#) Yves Meyer,2001 Image compression the Navier Stokes equations and detection of gravitational waves are three seemingly unrelated scientific problems that remarkably can be studied from one

perspective The notion that unifies the three problems is that of oscillating patterns which are present in many natural images help to explain nonlinear equations and are pivotal in studying chirps and frequency modulated signals The first chapter of this book considers image processing more precisely algorithms of image compression and denoising This research is motivated in particular by the new standard for compression of still images known as JPEG 2000 The second chapter has new results on the Navier Stokes and other nonlinear evolution equations Frequency modulated signals and their use in the detection of gravitational waves are covered in the final chapter In the book the author describes both what the oscillating patterns are and the mathematics necessary for their analysis It turns out that this mathematics involves new properties of various Besov type function spaces and leads to many deep results including new generalizations of famous Gagliardo Nirenberg and Poincare inequalities This book is based on the Dean Jacqueline B Lewis Memorial Lectures given by the author at Rutgers University It can be used either as a textbook in studying applications of wavelets to image processing or as a supplementary resource for studying nonlinear evolution equations or frequency modulated signals Most of the material in the book did not appear previously in monograph literature

Regularity and Scattering of Dispersive Wave Equations

Changxing Miao, Ruipeng Shen, 2025-02-17 The book places emphasis on both the mathematical significance and the strong physical background of wave equations It presents the theory of wave equations in a unique way different from the traditional descriptions provided by previous literature The book is primarily focused on mathematical ideas and thoughts about wave equations Starting from the modern theory of harmonic analysis the book develops a few new tools in this field that are being used for better understanding the theory of mathematical physics underlying the well posedness and scattering theory of wave and Klein Gordon equations Additionally a significant part of this book discusses theories and methods such as invariant and conservation laws inward outward energy methods etc that have never been covered by similar books in this field Finally the book briefly introduces recent developments in mathematical fields It is specially designed for experts in mathematics and physics who deal with numerous applications of nonlinear waves in physics engineering biology and other fields

Asymptotic Analysis in General Relativity Thierry Daudé, Dietrich

Häfner, Jean-Philippe Nicolas, 2018-01-11 This volume compiles notes from four mini courses given at the summer school on asymptotic analysis in general relativity held at the Institut Fourier in Grenoble France It contains an up to date panorama of modern techniques in the asymptotic analysis of classical and quantum fields in general relativity Accessible to graduate students these notes gather results that were not previously available in textbooks or monographs and will be of wider interest to researchers in general relativity The topics of these mini courses are the geometry of black hole spacetimes an introduction to quantum field theory on curved spacetimes conformal geometry and tractor calculus and microlocal analysis for wave propagation

Nonlinear Partial Differential Equations, 1980-01-01 Nonlinear Partial Differential Equations

Handbook of Nonlinear Partial Differential Equations, Second Edition Andrei D. Polyanin, Valentin F. Zaitsev, 2016-04-19

New to the Second Edition More than 1 000 pages with over 1 500 new first second third fourth and higher order nonlinear equations with solutions Parabolic hyperbolic elliptic and other systems of equations with solutions Some exact methods and transformations Symbolic and numerical methods for solving nonlinear PDEs with MapleTM Mathematica and MATLAB Many new illustrative examples and tables A large list of references consisting of over 1 300 sources To accommodate different mathematical backgrounds the authors avoid wherever possible the use of special terminology They outline the methods in a schematic simplified manner and arrange the material in increasing order of complexity

Holder-Sobolev Regularity of the Solution to the Stochastic Wave Equation in Dimension Three Robert C. Dalang, Marta Sanz Solé, 2009-04-10 The authors study the sample path regularity of the solution of a stochastic wave equation in spatial dimension $d \geq 3$ The driving noise is white in time and with a spatially homogeneous covariance defined as a product of a Riesz kernel and a smooth function The authors prove that at any fixed time s the sample paths in the spatial variable belong to certain fractional Sobolev spaces In addition for any fixed x in $\mathbb{R}^d$ the sample paths in time are Holder continuous functions Further the authors obtain joint Holder continuity in the time and space variables Their results rely on a detailed analysis of properties of the stochastic integral used in the rigorous formulation of the SDE as introduced by Dalang and Mueller 2003 Sharp results on one and two dimensional space and time increments of generalized Riesz potentials are a crucial ingredient in the analysis of the problem For spatial covariances given by Riesz kernels the authors show that the Holder exponents that they obtain are optimal

Function Spaces and Partial Differential Equations Ali Taheri, 2015 This is a book written primarily for graduate students and early researchers in the fields of Analysis and Partial Differential Equations PDEs Coverage of the material is essentially self contained extensive and novel with great attention to details and rigour The strength of the book primarily lies in its clear and detailed explanations scope and coverage highlighting and presenting deep and profound inter connections between different related and seemingly unrelated disciplines within classical and modern mathematics and above all the extensive collection of examples worked out and hinted exercises There are well over 700 exercises of varying level leading the reader from the basics to the most advanced levels and frontiers of research The book can be used either for independent study or for a year long graduate level course In fact it has its origin in a year long graduate course taught by the author in Oxford in 2004-5 and various parts of it in other institutions later on A good number of distinguished researchers and faculty in mathematics worldwide have started their research career from the course that formed the basis for this book

Selected Papers on Analysis and Differential Equations 1999, 2003 This volume contains translations of papers that originally appeared in the Japanese journal Sugaku Ordinarily the papers would appear in the AMS translation of that journal but to expedite publication the Society has chosen to publish them as a volume of selected papers The papers range over a variety of topics including nonlinear partial differential equations C algebras and Schrodinger operators The volume is suitable for graduate students and research mathematicians interested in analysis and

differential equations [Local Lipschitz Continuity in the Initial Value and Strong Completeness for Nonlinear Stochastic Differential Equations](#) Sonja Cox,Martin Hutzenthaler,Arnulf Jentzen,2024-05-15 [View the abstract](#) [The Evolution Problem in General Relativity](#) Sergiu Klainerman,Francesco Nicolo,2012-12-06 The main goal of this work is to revisit the proof of the global stability of Minkowski space by D Christodoulou and S Klainerman Ch KI We provide a new self contained proof of the main part of that result which concerns the full solution of the radiation problem in vacuum for arbitrary asymptotically flat initial data sets This can also be interpreted as a proof of the global stability of the external region of Schwarzschild spacetime The proof which is a significant modification of the arguments in Ch KI is based on a double null foliation of spacetime instead of the mixed null maximal foliation used in Ch KI This approach is more naturally adapted to the radiation features of the Einstein equations and leads to important technical simplifications In the first chapter we review some basic notions of differential geometry that are systematically used in all the remaining chapters We then introduce the Einstein equations and the initial data sets and discuss some of the basic features of the initial value problem in general relativity We shall review without proofs well established results concerning local and global existence and uniqueness and formulate our main result The second chapter provides the technical motivation for the proof of our main theorem

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