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this volume contains translations of papers that originally appeared in the japanese journal sugaku these papers range over a variety of topics in ordinary and partial differential equations and in analysis many of them are survey papers presenting new results obtained in the last few years this volume is suitable for graduate students and research mathematicians interested in analysis and differential equations this volume

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this book is a collection of lecture notes for the liasfma school and workshop on harmonic analysis and wave equations which was held on may 8 18 2017 at fudan university in shanghai china the aim of the liasfma school and workshop is to bring together chinese and french experts to discuss and dissect recent progress in these related fields and to disseminate state of art new knowledge and new concepts to graduate students and junior researchers the book provides the readers with a unique and valuable opportunity to learn from and communicate with leading experts in nonlinear wave type equations the readers will witness the major development with the introduction of modern harmonic analysis and related techniques

this volume is based on the ams special session on harmonic analysis and partial differential equations and the ams special session on nonlinear analysis of partial differential equations both held march 12 13 2011 at georgia southern university statesboro georgia as well as the jami conference on analysis of pdes held march 21 25 2011 at johns hopkins university baltimore maryland these conferences all concentrated on problems of current interest in harmonic analysis and pde with emphasis on the interaction between them this volume consists of invited expositions as well as research papers that address prospects of the recent significant development in the field of analysis and pde the central topics mainly focused on using fourier spectral and geometrical methods to treat wellposedness scattering and stability problems in pde including dispersive type evolution equations higher order systems and sobolev spaces theory that arise in aspects of mathematical physics the study of all these problems involves state of the art techniques and approaches that have been used and developed in the last decade the interrelationship between the theory and the tools reflects the richness and deep connections between various subjects in both classical and modern analysis

this book presents thirteen papers representing the most significant advances and current trends in nonlinear hyperbolic conservation laws and related analysis with applications topics covered include a survey on multidimensional systems of conservation laws as well as novel results on liquid crystals conservation laws with discontinuous flux functions and applications to sedimentation also included are articles on recent advances in the euler equations and the navier stokes fourier

poisson system in addition to new results on collective phenomena described by the cucker smale model the workshop on hyperbolic conservation laws and related analysis with applications at the international centre for mathematical sciences edinburgh uk held in edinburgh september 2011 produced this fine collection of original research and survey articles many leading mathematicians attended the event and submitted their contributions for this volume it is addressed to researchers and graduate students interested in partial differential equations and related analysis with applications

this second edition introduces an additional set of new mathematical problems with their detailed solutions in real analysis it also provides numerous improved solutions to the existing problems from the previous edition and includes very useful tips and skills for the readers to master successfully there are three more chapters that expand further on the topics of bernoulli numbers differential equations and metric spaces each chapter has a summary of basic points in which some fundamental definitions and results are prepared this also contains many brief historical comments for some significant mathematical results in real analysis together with many references problems and solutions in real analysis can be treated as a collection of advanced exercises by undergraduate students during or after their courses of calculus and linear algebra it is also instructive for graduate students who are interested in analytic number theory readers will also be able to completely grasp a simple and elementary proof of the prime number theorem through several exercises this volume is also suitable for non experts who wish to understand mathematical analysis

this textbook introduces the well posedness theory for initial value problems of nonlinear dispersive partial differential equations with special focus on two key models the korteweg de vries equation and the nonlinear schrödinger equation a concise and self contained treatment of background material the fourier transform interpolation theory sobolev spaces and the linear schrödinger equation prepares the reader to understand the main topics covered the initial value problem for the nonlinear schrödinger equation and the generalized korteweg de vries equation properties of their solutions and a survey of general classes of nonlinear dispersive equations of physical and mathematical significance each chapter ends with an expert account of recent developments and open problems as well as exercises the final chapter gives a detailed exposition of local well posedness for the nonlinear schrödinger equation taking the reader to the forefront of recent research the second edition of introduction to nonlinear dispersive equations builds upon the success of the first edition by the addition of updated material on the main topics an expanded bibliography and new exercises assuming only basic knowledge of complex analysis

and integration theory this book will enable graduate students and researchers to enter this actively developing field

this volume is a collection of notes from lectures given at the 2008 clay mathematics institute summer school held in zürich switzerland the lectures were designed for graduate students and mathematicians within five years of the ph d and the main focus of the program was on recent progress in the theory of evolution equations such equations lie at the heart of many areas of mathematical physics and arise not only in situations with a manifest time evolution such as linear and nonlinear wave and schrödinger equations but also in the high energy or semi classical limits of elliptic problems the three main courses focused primarily on microlocal analysis and spectral and scattering theory the theory of the nonlinear schrödinger and wave equations and evolution problems in general relativity these major topics were supplemented by several mini courses reporting on the derivation of effective evolution equations from microscopic quantum dynamics on wave maps with and without symmetries on quantum n body scattering diffraction of waves and symmetric spaces and on nonlinear schrödinger equations at critical regularity although highly detailed treatments of some of these topics are now available in the published literature in this collection the reader can learn the fundamental ideas and tools with a minimum of technical machinery moreover the treatment in this volume emphasizes common themes and techniques in the field including exact and approximate conservation laws energy methods and positive commutator arguments titles in this series are co published with the clay mathematics institute cambridge ma

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