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Geometric Integrators for Differential Equations with Highly Oscillatory SolutionsRevival: Nonlinear Analysis of Structures (1997)Advances in Mathematical Modelling, Applied Analysis and ComputationProceedingsNew Trends in Fractional Differential Equations with Real-World Applications in PhysicsLectures on Nonlinear Hyperbolic Differential EquationsHouse documentsMathematical ReviewsAnnotationes Zoologicae JaponensesReviews in Global Analysis, 1980-86 as Printed in Mathematical ReviewsChemical News and Journal of Industrial ScienceReprintsTransactions of the American Institute of Mining EngineersTransactionsQuarterly Journal of the Chemical Society of LondonJournal of the Chemical SocietyBulletin:mining and Metallurgical InvestigationsChemical methods and calculationsPetrographic Methods and CalculationsCanadian Journal of Physics Xinyuan Wu Muthukrishnan Sathyamoorthy Jagdev Singh Jagdev Singh Lars Hörmander American Institute of Mining Engineers American Institute of Mining, Metallurgical, and Petroleum Engineers Chemical Society (Great Britain) Chemical Society (Great Britain) Carnegie Institute of Technology Arthur Holmes Arthur Holmes

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the idea of structure preserving algorithms appeared in the 1980 s the new paradigm brought many innovative changes the new paradigm wanted to identify the long time behaviour of the solutions or the existence of conservation laws or some other qualitative feature of the dynamics another area that has kept growing in importance within geometric numerical integration is the study of highly oscillatory problems problems where the solutions are periodic or quasiperiodic and have to be studied in time intervals that include an extremely large number of periods as is known these equations cannot be solved efficiently using conventional methods a further study of novel geometric integrators has become increasingly important in recent years the objective of this monograph is to explore further geometric integrators for highly oscillatory problems that can be formulated as systems of ordinary and partial differential equations facing challenging scientific computational problems this book presents some new perspectives of the subject matter based on theoretical derivations and mathematical analysis and provides high performance numerical simulations in order to show the long time numerical behaviour of the simulation all the integrators presented in this monograph have been tested and verified on highly oscillatory systems from a wide range of applications in the field of science and engineering they are more efficient than existing schemes in the literature for differential equations that have highly oscillatory solutions this book is useful to researchers teachers students and engineers who are interested in geometric integrators and their long time behaviour analysis for differential equations with highly oscillatory solutions

nonlinear analysis of structures presents a complete evaluation of the nonlinear static and dynamic behavior of beams rods plates trusses frames mechanisms stiffened structures sandwich plates and shells these elements are important components in a wide variety of structures and vehicles such as spacecraft and missiles underwater vessels and structures and modern housing today s engineers and designers must understand these elements and their behavior when they are subjected to various types of loads coverage includes the various types of nonlinearities stress strain relations and the development of nonlinear governing equations derived from nonlinear elastic theory this complete guide includes both mathematical treatment and real world applications with a wealth of problems and examples to support the text special topics include a useful and informative chapter on nonlinear analysis of composite structures and another on recent developments in symbolic computation designed for both self study and classroom instruction nonlinear analysis of structures is also an authoritative reference for practicing engineers and scientists one of the world's leaders in the study of

nonlinear structural analysis professor sathyamoorthy has made significant research contributions to the field of nonlinear mechanics for twenty seven years his foremost contribution to date has been the development of a unique transverse shear deformation theory for plates undergoing large amplitude vibrations and the examination of multiple mode solutions for plates in addition to his notable research professor sathyamoorthy has also developed and taught courses in the field at universities in india canada and the united states

this book is a collection of research papers from the 7th international conference on mathematical modelling applied analysis and computation organized by lebanese american university beirut lebanon from april 18 20 2024 this proceeding contains research papers related with fundamental mathematical theory and methods in a very suitable manner and useful for handling various contemporary issues of physical chemical and engineering sciences the aim of this conference is to foster cooperation among mathematicians and scientists working in these areas this book is a very useful resource for mathematicians scientists and engineers working in the field of applied mathematics analysis and computation for solving real life problems of different domains

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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 opertors needed in the nonlinear theory is presented in complete detail

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