



Solving Nonlinear Wave Equations Based on Barycentric Lagrange Interpolation

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Abstract

In this paper, we deeply study the high-precision barycentric Lagrange interpolation collocation method to solve nonlinear wave equations. Firstly, we introduce the barycentric Lagrange interpolation and provide the differential matrix. Secondly, we construct a direct linearization iteration scheme to solve nonlinear wave equations. Once again, we use the barycentric Lagrange interpolation to approximate the $(2+1)$ dimensional nonlinear wave equations and $(3+1)$ dimensional nonlinear wave equations, and describe the matrix format for direct linearization iteration of the nonlinear wave equations. Finally, the comparative experiments show that the barycentric Lagrange interpolation collocation method for solving nonlinear wave equations have higher calculation accuracy and convergence rate.

Keywords Barycentric Lagrange interpolation · Differential matrix · Linearized iterative format · Nonlinear wave equation

1 Introduction

As a type of nonlinear model to describe natural wave phenomena, the effective solution of nonlinear wave equations can not only help understand the motion laws of waves under nonlinear effects [1], but also promote the development of related disciplines and engineering fields, such as fluid mechanics [2], electromagnetic waves [3] and nonlinear optics [4]. Establishing accurate nonlinear wave models is an inevitable issue to study nonlinear science. However, most nonlinear problems

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Algebraic And Spectral Methods For Nonlinear Wave Equations

Daniel F McAuley



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understanding of oceanic surface and internal waves Nonlinear Fourier analysis is based upon a generalization of linear Fourier analysis referred to as the inverse scattering transform the fundamental building block of which is a generalized Fourier series called the Riemann theta function Elucidating the art and science of implementing these functions in the context of physical and time series analysis is the goal of this book Presents techniques and methods of the inverse scattering transform for data analysis Geared toward both the introductory and advanced reader venturing further into mathematical and numerical analysis Suitable for classroom teaching as well as research

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Table of Contents Algebraic And Spectral Methods For Nonlinear Wave Equations

1. Understanding the eBook Algebraic And Spectral Methods For Nonlinear Wave Equations
 - The Rise of Digital Reading Algebraic And Spectral Methods For Nonlinear Wave Equations
 - Advantages of eBooks Over Traditional Books
2. Identifying Algebraic And Spectral Methods For Nonlinear Wave Equations
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Algebraic And Spectral Methods For Nonlinear Wave Equations
 - User-Friendly Interface
4. Exploring eBook Recommendations from Algebraic And Spectral Methods For Nonlinear Wave Equations
 - Personalized Recommendations
 - Algebraic And Spectral Methods For Nonlinear Wave Equations User Reviews and Ratings
 - Algebraic And Spectral Methods For Nonlinear Wave Equations and Bestseller Lists
5. Accessing Algebraic And Spectral Methods For Nonlinear Wave Equations Free and Paid eBooks
 - Algebraic And Spectral Methods For Nonlinear Wave Equations Public Domain eBooks
 - Algebraic And Spectral Methods For Nonlinear Wave Equations eBook Subscription Services
 - Algebraic And Spectral Methods For Nonlinear Wave Equations Budget-Friendly Options

6. Navigating Algebraic And Spectral Methods For Nonlinear Wave Equations eBook Formats
 - ePub, PDF, MOBI, and More
 - Algebraic And Spectral Methods For Nonlinear Wave Equations Compatibility with Devices
 - Algebraic And Spectral Methods For Nonlinear Wave Equations Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Algebraic And Spectral Methods For Nonlinear Wave Equations
 - Highlighting and Note-Taking Algebraic And Spectral Methods For Nonlinear Wave Equations
 - Interactive Elements Algebraic And Spectral Methods For Nonlinear Wave Equations
8. Staying Engaged with Algebraic And Spectral Methods For Nonlinear Wave Equations
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Algebraic And Spectral Methods For Nonlinear Wave Equations
9. Balancing eBooks and Physical Books Algebraic And Spectral Methods For Nonlinear Wave Equations
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Algebraic And Spectral Methods For Nonlinear Wave Equations
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Algebraic And Spectral Methods For Nonlinear Wave Equations
 - Setting Reading Goals Algebraic And Spectral Methods For Nonlinear Wave Equations
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Algebraic And Spectral Methods For Nonlinear Wave Equations
 - Fact-Checking eBook Content of Algebraic And Spectral Methods For Nonlinear Wave Equations
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
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