



Article

Mathematical and Statistical Aspects of Estimating Small Oscillations Parameters in a Conservative Mechanical System Using Inaccurate Observations

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Abstract: This paper selects a set of reference points in the form of an arithmetic progression for planning an experiment to evaluate the parameters of systems of differential equations. This choice makes it possible to construct estimates of the parameters of a system of first-order differential equations based on the reversibility of the observation matrix, as well as estimates of the parameters of a system of second-order differential equations describing vibrations in a mechanical system by switching to a system of first-order differential equations. In turn, the reversibility of the observation matrix used in parameter estimation is established using the Vandermonde formula. A volumetric computational experiment has been carried out showing how, with an increase in the number of observations in the vicinity of reference points and with a decrease in the step of arithmetic progression, the accuracy of estimates of the parameters of the analyzed system increases. Among the estimated parameters, the most important are the oscillation frequencies of a conservative mechanical system, which establish its proximity to resonance, and therefore, determine the stability and reliability of the system.



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1. Introduction

In [1], an algorithm was constructed for estimating the parameters of a system of first-order ordinary differential equations by a large number of inaccurate observations in the vicinity of one selected point. We will further call such points reference points. Estimates of the solution of the system and its derivative at the reference point are constructed by the method of linear regression analysis. According to them, estimates of the system parameters are determined by the method of moments, and their consistency is proved. However, the development of this topic requires the selection of several reference points for estimating the parameters of a linear system of ordinary differential equations. Such a problem arises, for example, if the number of unknown parameters is greater than the number of equations in the system and if the order of the system is higher than the first.

The estimation of the parameters of a system of linear differential equations with constant coefficients based on inaccurate observations of its solution is of particular interest. The choice of reference points forming a finite arithmetic progression allows us, in this case, to construct ratios for evaluating the elements of the coefficient matrix, including the inverse matrix, the square root of the matrix, etc. [2–4]. At the same time, it turns out that the Vandermonde determinant plays the main role in the circulation of the matrices

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Table of Contents Statistical And Mathematical Aspects Of Pollution Problems

1. Understanding the eBook Statistical And Mathematical Aspects Of Pollution Problems
 - The Rise of Digital Reading Statistical And Mathematical Aspects Of Pollution Problems
 - Advantages of eBooks Over Traditional Books
2. Identifying Statistical And Mathematical Aspects Of Pollution Problems
 - 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 Statistical And Mathematical Aspects Of Pollution Problems
 - User-Friendly Interface
4. Exploring eBook Recommendations from Statistical And Mathematical Aspects Of Pollution Problems
 - Personalized Recommendations
 - Statistical And Mathematical Aspects Of Pollution Problems User Reviews and Ratings
 - Statistical And Mathematical Aspects Of Pollution Problems and Bestseller Lists
5. Accessing Statistical And Mathematical Aspects Of Pollution Problems Free and Paid eBooks

- Statistical And Mathematical Aspects Of Pollution Problems Public Domain eBooks
- Statistical And Mathematical Aspects Of Pollution Problems eBook Subscription Services
- Statistical And Mathematical Aspects Of Pollution Problems Budget-Friendly Options

6. Navigating Statistical And Mathematical Aspects Of Pollution Problems eBook Formats

- ePUB, PDF, MOBI, and More
- Statistical And Mathematical Aspects Of Pollution Problems Compatibility with Devices
- Statistical And Mathematical Aspects Of Pollution Problems Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Statistical And Mathematical Aspects Of Pollution Problems
- Highlighting and Note-Taking Statistical And Mathematical Aspects Of Pollution Problems
- Interactive Elements Statistical And Mathematical Aspects Of Pollution Problems

8. Staying Engaged with Statistical And Mathematical Aspects Of Pollution Problems

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Statistical And Mathematical Aspects Of Pollution Problems

9. Balancing eBooks and Physical Books Statistical And Mathematical Aspects Of Pollution Problems

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Statistical And Mathematical Aspects Of Pollution Problems

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Statistical And Mathematical Aspects Of Pollution Problems

- Setting Reading Goals Statistical And Mathematical Aspects Of Pollution Problems
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Statistical And Mathematical Aspects Of Pollution Problems

- Fact-Checking eBook Content of Statistical And Mathematical Aspects Of Pollution Problems
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development

- Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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