

Chapter 1

Singular Value Homogenization: a Simple Preconditioning Technique for Linearly Constrained Optimization and

INTRODUCTION

In many experimental settings the information $z \in \mathbb{R}^n$ to be processed and analyzed computationally is obtained through measuring some real world data $x \in \mathbb{R}^m$. The action of performing such measurement oftentimes introduces distortions or errors in the real data which, given that the distortion $A : \mathbb{R}^m \rightarrow \mathbb{R}^n$ is known, may be inverted to recover the original data. A particularly common case (e.g. in image processing, dose computation or convolution and deconvolution processes in general [1,2]) occurs when this relation A between measurements and data is in fact linear or easily linearizable, i.e. if $A \in \mathbb{R}^{m \times n}$.

It is thus natural to consider the following optimization problem

$$\min_{x \in \mathbb{R}^m} f(Ax), \quad (1.1)$$

where $f : \mathbb{R}^n \rightarrow \mathbb{R}$ is a continuously differentiable function and A is a real $m \times n$ matrix. Typical (first order) approaches for solving (1.1) involve estimates of the gradient, see for example the classical works of Levitin and Polyak [3], Goldstein and Tretyakov [4] and more recent and related results [5,6]. Hence there is the need to evaluate the term

$$\nabla_x f(Ax) = A^T \cdot \nabla_z f(z), \quad (1.2)$$

where $z = Ax$. In the case of ill-conditioned A , (1.2) gives only little information and hence long run-times ensue, see also [7,8].

The purpose of this paper is introduce a new preconditioning process through altering the singular value spectrum of A and then transforming (1.1) into a more benign problem. Our proposed algorithmic scheme can be used as a

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Table of Contents Fundamentals Of Matrix Computations Solutions

1. Understanding the eBook Fundamentals Of Matrix Computations Solutions
 - The Rise of Digital Reading Fundamentals Of Matrix Computations Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Fundamentals Of Matrix Computations Solutions
 - 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 Fundamentals Of Matrix Computations Solutions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Fundamentals Of Matrix Computations Solutions
 - Personalized Recommendations

- Fundamentals Of Matrix Computations Solutions User Reviews and Ratings
- Fundamentals Of Matrix Computations Solutions and Bestseller Lists
- 5. Accessing Fundamentals Of Matrix Computations Solutions Free and Paid eBooks
 - Fundamentals Of Matrix Computations Solutions Public Domain eBooks
 - Fundamentals Of Matrix Computations Solutions eBook Subscription Services
 - Fundamentals Of Matrix Computations Solutions Budget-Friendly Options
- 6. Navigating Fundamentals Of Matrix Computations Solutions eBook Formats
 - ePub, PDF, MOBI, and More
 - Fundamentals Of Matrix Computations Solutions Compatibility with Devices
 - Fundamentals Of Matrix Computations Solutions Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Fundamentals Of Matrix Computations Solutions
 - Highlighting and Note-Taking Fundamentals Of Matrix Computations Solutions
 - Interactive Elements Fundamentals Of Matrix Computations Solutions
- 8. Staying Engaged with Fundamentals Of Matrix Computations Solutions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Fundamentals Of Matrix Computations Solutions
- 9. Balancing eBooks and Physical Books Fundamentals Of Matrix Computations Solutions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Fundamentals Of Matrix Computations Solutions
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Fundamentals Of Matrix Computations Solutions
 - Setting Reading Goals Fundamentals Of Matrix Computations Solutions
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Fundamentals Of Matrix Computations Solutions
 - Fact-Checking eBook Content of Fundamentals Of Matrix Computations Solutions

- 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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