

Chapter 2

MEMS Accelerometers: Testing and Practical Approach for Smart Sensing and Machinery Diagnostics

A. Albarbar and S.H. Teay

Abstract Micro-Electro Mechanical Systems (MEMS)-based sensing elements are gaining wider acceptance and adoption for static and dynamic (mobile) applications. Recent increase in demands for reliable wireless sensing nodes has necessitated seeking alternatives to expensive conventional accelerometers to perform multi-control and monitoring tasks. Owing to their size and cost, MEMS accelerometers is one of the alternative options.

This chapter provides insight into the fundamental design, working principles and practical guidance to MEMS accelerometers. Details of experimental set-ups, signal conditioning and data processing are also provided to construct integrated performance assessment system. Performance assessments are carried out using sinusoidal excitations, impulsive (hammer testing) and random excitations. Subsequently, calculations and comments on frequency response functions, signal-to-noise ratios and phase distortions are outlined. Finally, guidelines to practical adoption of MEMS accelerometers such as packaging, establishing smart vibration sensing nodes and extraction of condition-related information are given.

Keywords MEMS accelerometers design and testing • Performance assessment of MEMS accelerometers • Vibration measurement using MEMS sensors • Smart sensor design and implementation • Machinery-condition monitoring

1 Introduction

Vibration analysis is one of the most usable methods in machinery-condition monitoring. It plays a significant role in the dynamic qualification of newly designed structural components, prediction of faults and structural aging-related problems, and several other structural dynamics studies and diagnosis [1–3]. One reason for

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Michael Rajnik



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Table of Contents Chapter 2 Mems Accelerometers Testing And Practical

1. Understanding the eBook Chapter 2 Mems Accelerometers Testing And Practical
 - The Rise of Digital Reading Chapter 2 Mems Accelerometers Testing And Practical
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 2 Mems Accelerometers Testing And Practical
 - 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 Chapter 2 Mems Accelerometers Testing And Practical
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 2 Mems Accelerometers Testing And Practical
 - Personalized Recommendations
 - Chapter 2 Mems Accelerometers Testing And Practical User Reviews and Ratings
 - Chapter 2 Mems Accelerometers Testing And Practical and Bestseller Lists
5. Accessing Chapter 2 Mems Accelerometers Testing And Practical Free and Paid eBooks
 - Chapter 2 Mems Accelerometers Testing And Practical Public Domain eBooks
 - Chapter 2 Mems Accelerometers Testing And Practical eBook Subscription Services
 - Chapter 2 Mems Accelerometers Testing And Practical Budget-Friendly Options
6. Navigating Chapter 2 Mems Accelerometers Testing And Practical eBook Formats
 - ePub, PDF, MOBI, and More
 - Chapter 2 Mems Accelerometers Testing And Practical Compatibility with Devices
 - Chapter 2 Mems Accelerometers Testing And Practical Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chapter 2 Mems Accelerometers Testing And Practical
 - Highlighting and Note-Taking Chapter 2 Mems Accelerometers Testing And Practical
 - Interactive Elements Chapter 2 Mems Accelerometers Testing And Practical
8. Staying Engaged with Chapter 2 Mems Accelerometers Testing And Practical

- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chapter 2 Mems Accelerometers Testing And Practical
9. Balancing eBooks and Physical Books Chapter 2 Mems Accelerometers Testing And Practical
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chapter 2 Mems Accelerometers Testing And Practical
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Chapter 2 Mems Accelerometers Testing And Practical
- Setting Reading Goals Chapter 2 Mems Accelerometers Testing And Practical
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Chapter 2 Mems Accelerometers Testing And Practical
- Fact-Checking eBook Content of Chapter 2 Mems Accelerometers Testing And Practical
 - 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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