

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

A. Albarbar (✉) • S.H. Teay
School of Engineering, Manchester Metropolitan University, All Saints Building,
All Saints, Manchester M15 6BH, UK
e-mail: a.albarbar@mmu.ac.uk

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In some sort of used by monitors and the ceaseless chatter of fast transmission, the melodic beauty and mental symphony developed by the written term usually disappear in to the backdrop, eclipsed by the persistent sound and disturbances that permeate our lives. Nevertheless, nestled within the pages of **Chapter 2 Mems Accelerometers Testing And Practical** a marvelous fictional prize full of raw thoughts, lies an immersive symphony waiting to be embraced. Constructed by a wonderful musician of language, this charming masterpiece conducts readers on a mental journey, well unraveling the hidden melodies and profound impact resonating within each carefully crafted phrase. Within the depths of the poignant assessment, we can discover the book is central harmonies, analyze their enthralling writing design, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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