

Mechanical vibration and shock — Performance parameters for condition monitoring of structures

ICS 17.160; 91.120.25

National foreword

This British Standard reproduces verbatim ISO 16587:2004 and implements it as the UK national standard.

The UK participation in its preparation was entrusted by Technical Committee GME/21, Mechanical vibration and shock, to Subcommittee GME/21/3, Measurement and evaluation of mechanical vibration and shock, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

A list of organizations represented on this subcommittee can be obtained on request to its secretary.

Cross-references

The British Standards which implement international publications referred to in this document may be found in the *BSI Catalogue* under the section entitled “International Standards Correspondence Index”, or by using the “Search” facility of the *BSI Electronic Catalogue* or of British Standards Online.

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Summary of pages

This document comprises a front cover, an inside front cover, the ISO title page, pages ii to iv, pages 1 to 10, an inside back cover and a back cover.

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Mechanical vibration and shock — Performance parameters for condition monitoring of structures

*Vibrations et chocs mécaniques — Paramètres de performance pour la
surveillance des structures*



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Foreword

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The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 16587 was prepared by Technical Committee ISO/TC 108, *Mechanical vibration and shock*.

Introduction

This International Standard provides general guidelines for the condition monitoring of structures, using parameters typically used to measure or monitor structure performance, such as displacement, strain, vibration, settlement, rotation, temperature, and foundation pore pressure.

It has been structured to be consistent with ISO 13380 and ISO 17359 in order to facilitate a consistent approach to the condition monitoring of systems.

The information provided in this International Standard will be supplemented by ISO 18431 which will be published in several parts.