

---

---

**Methods for the calibration of vibration  
and shock transducers —**

**Part 1:**  
Basic concepts

*Méthodes pour l'étalonnage des transducteurs de vibrations et de chocs —  
Partie 1: Concepts de base*



| <b>Contents</b>                                                            | <b>Page</b> |
|----------------------------------------------------------------------------|-------------|
| <b>1 Scope .....</b>                                                       | <b>1</b>    |
| <b>2 Normative references .....</b>                                        | <b>1</b>    |
| <b>3 Terms and definitions .....</b>                                       | <b>1</b>    |
| <b>4 Characteristics to be measured .....</b>                              | <b>4</b>    |
| <b>4.1 General.....</b>                                                    | <b>4</b>    |
| <b>4.2 Direct response.....</b>                                            | <b>4</b>    |
| <b>4.3 Spurious response .....</b>                                         | <b>5</b>    |
| <b>5 Calibration methods .....</b>                                         | <b>7</b>    |
| <b>5.1 General.....</b>                                                    | <b>7</b>    |
| <b>5.2 Primary calibration methods .....</b>                               | <b>8</b>    |
| <b>5.3 Comparison calibration methods.....</b>                             | <b>17</b>   |
| <b>6 Expression of uncertainty of measurement.....</b>                     | <b>18</b>   |
| <b>Annex A (informative) Expression of uncertainty of measurement.....</b> | <b>19</b>   |
| <b>Bibliography .....</b>                                                  | <b>22</b>   |

© ISO 1998

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

International Organization for Standardization  
Case postale 56 • CH-1211 Genève 20 • Switzerland  
Internet iso@iso.ch

Printed in Switzerland