

# ISO 20283-5:2016-12 (E)

## Mechanical vibration - Measurement of vibration on ships - Part 5: Guidelines for measurement, evaluation and reporting of vibration with regard to habitability on passenger and merchant ships

---

| <b>Contents</b>       |  | <b>Page</b> |
|-----------------------|--|-------------|
| Foreword .....        |  | iv          |
| Introduction .....    |  | v           |
| 1                     | Scope .....  | 1           |
| 2                     | Normative references .....   | 1           |
| 3                     | Terms and definitions .....  | 1           |
| 4                     | Instrumentation .....  | 3           |
| 4.1                   | General requirements .....   | 3           |
| 4.2                   | Functional test .....  | 3           |
| 5                     | Measurement locations and directions .....   | 3           |
| 5.1                   | Measurement locations .....  | 3           |
| 5.2                   | Measurement position and orientation .....   | 4           |
| 6                     | Measurement conditions .....   | 4           |
| 7                     | Measurement procedure .....  | 5           |
| 8                     | Evaluation .....   | 5           |
| 8.1                   | Guideline values of acceptable vibration .....   | 5           |
| 8.2                   | Excessive vibration values .....   | 6           |
| 8.3                   | Beating .....  | 6           |
| 9                     | Test report .....  | 7           |
| Annex A (informative) | Frequency weighting, $W_m$ .....   | 8           |
| Annex B (informative) | Example of report for evaluation of habitability on-board ships in accordance with this document ..... | 10          |
| Bibliography .....    |  | 11          |