# ISO 18312-1:2012-01 (E)

## Mechanical vibration and shock - Measurement of vibration power flow from machines into connected support structures - Part 1: Direct method

## Contents

Page


Foreword ..... iv

1 Scope ..... 1

2 Normative references ..... 1

3 Terms and definitions ..... 1

4 Fundamentals ..... 3

5 Measurement ..... 5
5.1 General ..... 5
5.2 Arrangement of vibration transducers ..... 5
5.3 Measurement of forces ..... 5
5.4 Measurement equipment ..... 7
5.5 Metrological specifications ..... 8
5.6 Determination of upper frequency limit ..... 9
5.7 Choice of number of joints to measure from ..... 9
5.8 Determination of total vibration power by measuring from a limited number of joints ..... 9

6 Measurement uncertainty ..... 10

7 Data presentation and test report ..... 10

Bibliography ..... 12