

# ISO 5982:2001-11 (E)

## Mechanical vibration and shock - Range of idealized values to characterize seated-body biodynamic response under vertical vibration

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
Introduction .....		v
1	Scope .....	1
2	Normative reference .....	1
3	Terms and definitions .....	2
4	Driving-point mechanical impedance and apparent mass of the seated body under vertical vibration .....	3
4.1	Definition of values of driving-point mechanical impedance and apparent mass .....	3
4.2	Applicability of values of driving-point mechanical impedance and apparent mass .....	3
5	Seat-to-head transmissibility of the seated human body under vertical vibration .....	8
5.1	Definition of values of seat-to-head transmissibility .....	8
5.2	Applicability of values of seat-to-head transmissibility .....	8
6	Applications .....	11
6.1	Model of the seated human body .....	11
6.2	Computation of biodynamic response functions for fixed body masses .....	11
Annex A (informative)	Identification of the data used to define the range of idealized driving-point mechanical impedance/apparent mass and seat-to-head transmissibility data .....	12
Annex B (informative)	Model .....	15
Annex C (informative)	Mathematical expressions for the mean (target) biodynamic response functions .....	19
Annex D (informative)	Model computed values of response functions for fixed body masses .....	23
Bibliography .....		27