
**Mechanical vibration and shock —
Characterization of the dynamic
mechanical properties of visco-elastic
materials —**

Part 3:

Cantilever shear beam method

AMENDMENT 1

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ISO 18437-3:2005/Amd.1:2010
Vibrations et chocs mécaniques — Caractérisation des propriétés
mécaniques dynamiques des matériaux visco-élastiques —
Partie 3: Méthode du faisceau par cisaillement en encorbellement

AMENDEMENT 1



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Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
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Foreword

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Amendment 1 to ISO 18437-3:2005 was prepared by Technical Committee ISO/TC 108, *Mechanical vibration, shock and condition monitoring*.

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Mechanical vibration and shock — Characterization of the dynamic mechanical properties of visco-elastic materials —

Part 3: Cantilever shear beam method

AMENDMENT 1

Page iv, Foreword

Add after Part 3:

- *Part 4: Dynamic stiffness method*
- *Part 5: Poisson's ratio based on comparison between measurements and finite element analysis*

Delete at the end of the list:

Part 4 (*Impedance method*) is under preparation.

Add at the end of the list:

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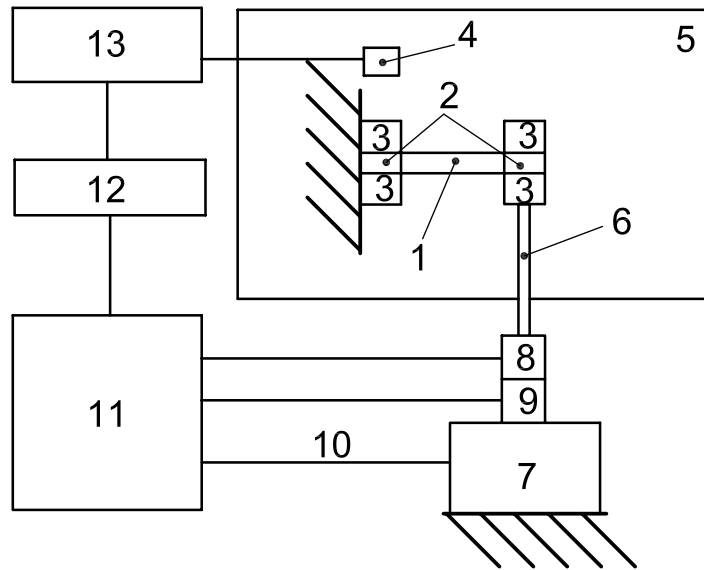
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The following part is in preparation:

- Part 1: Principles and guidelines

Replace the existing figure by the following.



Key

- 1 beam specimen
- 2 specimen end blocks
- 3 specimen clamps
- 4 temperature sensor
- 5 environmental chamber
- 6 drive shaft
- 7 electro-dynamic vibration generator
- 8 force sensor
- 9 displacement sensor
- 10 drive input
- 11 instrument controls for force, displacement, and drive units
- 12 computer
- 13 temperature control unit

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NOTE The drive shaft is rigidly attached to the sample clamp and vibration generator so motion is that of a shear beam.

Figure 1 — Schematic diagram of test apparatus

Replace the existing text by the following:

The rigidity of the drive shaft and clamping fixture shall be tens to hundreds times larger than the bending stiffness of the specimen so that all of the measured displacement may be attributed to sample deformation.

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