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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**

*Vibrations et chocs mécaniques — Caractérisation des propriétés  
mécaniques dynamiques des matériaux visco-élastiques —*

*Partie 3: Méthode du faisceau par cisaillement en encorbellement*

*AMENDEMENT 1*



Reference number  
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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*.



# 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:

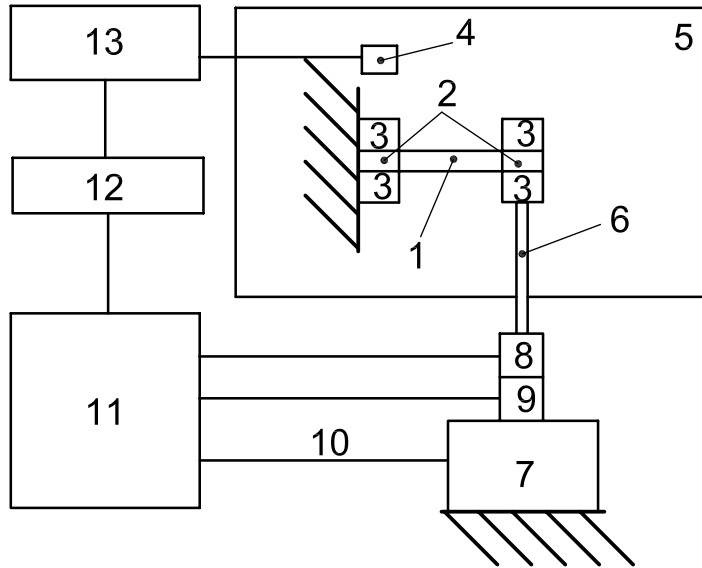
Part 4 (*Impedance method*) is under preparation.

Add at the end of the list:

The following part is in preparation:

- Part 1: Principles and guidelines

Replace the existing figure by the following.



**Key**

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

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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Price based on 2 pages