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Bending a leaf spring (Item No.: P1252000)



Principle and equipment

Principle

Investigate the bending behaviour of a leaf spring under the conditions that the point of application and the direction of the force remain the same.

In addition, demonstrate that the action of the force is greatest when the force acts perpendicularly to the leaf spring.

Equipment

| Position No. | Material | Order No. | Quantity |
|--------------|----------------------------------|-----------|----------|
| 1 | Demo Physics board with stand | 02150-00 | 1 |
| 2 | Clamp on fixing magnet | 02151-01 | 1 |
| 3 | Torsion dynamometer | 03069-03 | 1 |
| 4 | Scale for demonstration board | 02153-00 | 1 |
| 5 | Pointers f. Demonst.Board, 4 pcs | 02154-01 | 1 |
| 6 | Optical disk, magnet held | 08270-09 | 1 |
| 7 | Leaf spring | 02228-00 | 1 |
| 8 | Marker, black | 46402-01 | 1 |



Demo

advanced

DHVWE

Teacher's/Lecturer's Sheet

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Set-up and procedure

Set-up

- Place the clamp on fixing magnet onto the demonstration board and clamp the leaf spring into a horizontal position with it.
- Positon the two pointers in such a manner that their lateral edges are at the same height as the horizontally positioned leaf spring (Fig. 1).
- Place and adjust the dynamometer in such a manner that its traction cord is vertical.



Procedure



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Observations and evaluation

Observation

Evaluation



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