

1.2.01-00 Moments



What you can learn about ...

- Moments
- Couple
- Equilibrium
- Statics
- Lever
- Coplanar forces

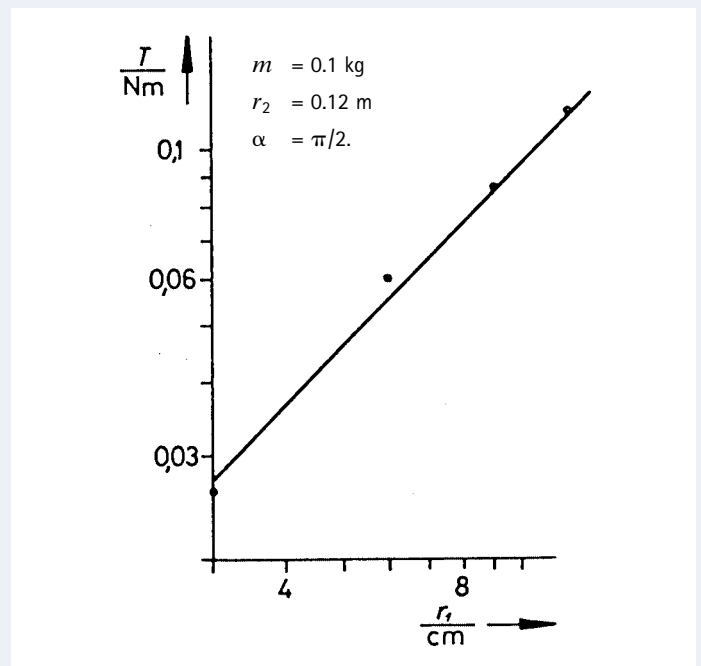
Principle:

Coplanar forces (weight, spring balance) act on the moments disc on either side of the pivot. In equilibrium, the moments are determined as a function of the magnitude and direction of the forces and of the reference point.

What you need:

Moments disk	02270.00	1
Spring Balance 1 N	03060.01	2
Tripod base -PASS-	02002.55	2
Barrel base -PASS-	02006.55	1
Support rod -PASS-, square, $l = 400$ mm	02026.55	2
Right angle clamp -PASS-	02040.55	1
Swivel clamp -PASS-	02041.55	1
Bolt with pin	02052.00	1
Weight holder f. slotted weights	02204.00	1
Slotted weight, 10 g, black	02205.01	4
Slotted weight, 50 g, black	02206.01	1
Fish line, $l = 100$ m	02090.00	1
Rule, plastic, $l = 200$ mm	09937.01	1

Complete Equipment Set, Manual on CD-ROM included Moments P2120100



Moment as a function of the distance between the origin of the coordinates and the point of action of the force.

Tasks:

1. Moment as a function of the distance between the origin of the coordinates and the point of action of the force,
2. moment as a function of the angle between the force and the position vector to the point of action of the force,
3. moment as a function of the force.