**Rotational Inertia Data**

**Experiment 1**

Mass of bar, mbar = 27.1 g Mass of individual masses, m1 & m2 = 75.4 g Length of bar, = 38.0 cm

Radius of small plastic wheel for Torque, R = 1.43 cm Radius of masses, l = 18.0 cm

|  |  |
| --- | --- |
| Mass, m, kg | angular acceleration,, rad/s2 |
| 0.01 | 0.25900 |
| 0.02 | 0.54100 |
| 0.03 | 0.80400 |
| 0.04 | 1.08000 |
| 0.05 | 1.33000 |
| 0.06 | 1.68000 |

**Experiment 2**

Mass of bar, mbar = 27.1 g Mass of individual masses, m1 & m2 = 75.4 g Length of bar, = 38.0 cm

Radius of small plastic wheel for Torque, R = 1.43 cm Radius of masses, l = 7.5 cm

|  |  |
| --- | --- |
| Mass, m, kg | angular acceleration,, rad/s2 |
| 0.01 | 1.06 |
| 0.02 | 2.16 |
| 0.03 | 3.12 |
| 0.04 | 4.41 |
| 0.05 | 5.52 |
| 0.06 | 6.55 |