|  |  |
| --- | --- |
| 砝碼質量m(kg) | 0.11003 |
| 棉線纏繞半徑r(m): | 0.012655 |
| 偏軸d(m): | 0.1500 |
| 盤質量M(kg) | 1.4820 |
| 圓盤半徑R(m) | 0.10855 |

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| --- | --- | --- | --- | --- | --- |
|  | 力矩τ(N\*m) | 減角加速度α(rad/s^2) | 角加速度α0(rad/s^2) | 角加速度α(rad/s^2) | 轉動慣量I(kg\*m^2) |
| 盤固定加空軌 | 0.013642 | 0.0496 | 0.1891 | 0.239 | 0.0721 |
| 盤轉動加空軌 | 0.013641 | 0.0641 | 0.2212 | 0.285 | 0.0617 |
| 空軌 | 0.013632 | 0.0898 | 0.6955 | 0.785 | 0.0196 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | 理論轉動慣量I(kg\*m^2) | 實驗轉動慣量I(kg\*m^2) | 誤差% |
| 盤固定 | 0.04088 | 0.0525 | 28.5 |
| 盤轉動 | 0.03335 | 0.0421 | 26.2 |