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CHAPTER 3

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$$B-3-1. \quad J = \frac{1}{2} mR^2 = \frac{1}{2} \times 100 \times 0.5^2 = 12.5 \text{ kg-m}^2$$

B-3-2. Assume that the body of known moment of inertia J_0 is turned through a small angle θ about the vertical axis and then released. The equation of motion for the oscillation is

$$J_0 \ddot{\theta} = -k\theta$$

where k is the torsional spring constant of the string. This equation can be written as

$$\ddot{\theta} + \frac{k}{J_0} \theta = 0$$

or

$$\ddot{\theta} + \omega_n^2 \theta = 0$$

where

$$\omega_n = \sqrt{\frac{k}{J_0}}$$

The period T_0 of this oscillation is

$$T_0 = \frac{2\pi}{\omega_n} = \frac{2\pi}{\sqrt{\frac{k}{J_0}}} \quad (1)$$

Next, we attach a rotating body of unknown moment of inertia J and measure the period T of oscillation. The equation for the period T is

$$T = \frac{2\pi}{\omega_n} \quad (2)$$

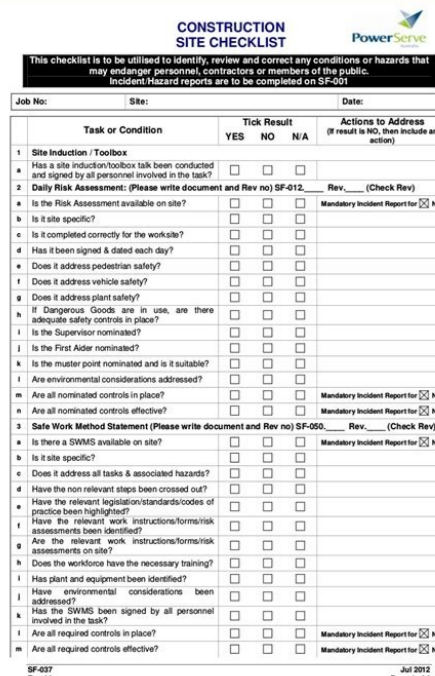
By eliminating the unknown torsional spring constant k from Equations (1) and (2), we obtain

$$\frac{2\pi\sqrt{J_0}}{T_0} = \frac{2\pi\sqrt{J}}{T}$$

Hence

$$J = J_0 \left(\frac{T}{T_0} \right)^2 \quad (3)$$

The unknown moment of inertia J can therefore be determined by measuring the period of oscillation T and substituting it into Equation (3).



List of Post Graduate Thesis

No.	Thesis Title	graduation	Year of research
1.	Application of Expert System on Disputes of Competitive Contracts of Construction Projects.	M.SC.	1996
2.	Deriving an Approximate Method of Cost Estimation.	M.SC.	1996
3.	Management of Constructability Enhancement of the Construction Industry.	M.SC.	1996
4.	Management Information System (MIS) for Planning And Schedule Control of Construction In the Iraqi Oil Sector.	Ph.D.	1996
5.	Integrated Construction Management System for Site Cost Problems And Management Evaluation with Expert System Implementation.	Ph.D.	1996
6.	Developing an Integrated Management System for Selecting Method and Equipment of Excavation Irrigation Projects with Expert System Implementation.	M.SC.	1997
7.	Deriving an Equation for Calculating the Productivity of Equipments for Road Projects.	M.SC.	1997
8.	Using a Computer Interactive Model for Evaluating and Improving projects	M.SC.	1997
9.	Expert System Application on Selection of Compaction Method and Equipment.	M.SC.	1998
10.	Improving the Cost Components in the Reconstruction Projects that have been Executed Through The Period (1991-1994).	M.SC.	1998
11.	Management and Control of on-Site Construction Material.	Ph.D.	1999
12.	Deriving an Equation to Calculate The Productivity of Excavation.	M.SC.	1999
13.	Evaluation System for Work Progress by Standard Weights of Construction Items.	Ph.D.	1999
14.	Optimal Management Solution of Estimation Cost of Highway Project in Iraq.	Ph.D.	1999
15.	The Development of A management System for Controlling and following-up Subcontractor Work.	Ph.D.	1999
16.	Developing A management Systems for Plant Management with Expert System implementation.	M. Sc.	1999
17.	Developing an Interactive Computer Program for Evaluating the Performance of Construction Management at The Execution Stage.	M. Sc.	1999

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