

## Vibration Problems In Engineering

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*Vibration problems* are encountered in many engineering applications. The Newton's second law provides  
the equation of motion with system parameters including displacement, mass of a body, and external  
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Although any system can oscillate when it is forced to do so externally, the term "vibration" in

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mechanical engineering is often reserved for systems that can oscillate freely without applied forces. Sometimes these vibrations cause minor or serious performance or safety problems in engineered systems.

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Solution. Equation of motion in this case is (see Art. 2)  $M \ddot{\theta} + p^2 \theta = M \ddot{\theta}_0 \cos \omega t$ , where  $\theta$  is = the angle of twist and  $p^2 = k/I$ . The forced vibration  $\theta = \frac{M \ddot{\theta}_0}{p^2 - \omega^2} \cos \omega t$ . Noting that the statical deflection amplitude equal to is  $M \ddot{\theta}_0 / p^2 = M \ddot{\theta}_0 \cos^2 \omega t / p^2$ .

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*Vibration Problems In Engineering by S. Timoshenko ...*

W. Weaver Jr. and S. P. Timoshenko are the authors of Vibration Problems in Engineering, 5th Edition, published by Wiley. Table of Contents Preface xi. 1 Systems with One Degree of Freedom 1 1.1 Examples of One-Degree Systems 1. 1.2 Undamped Free Translational Vibrations 2.

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