

Chapter 3

Harmonically Excited Vibration

3.1 (a) $\delta = \frac{W}{k} = \frac{40}{4000} = 0.01 \text{ m}$
 (b) $\delta_{st} = \frac{F_0}{k} = \frac{40}{4000} = 0.01 \text{ m}$
 (c) $\omega_n = \sqrt{\frac{k}{m}} = \left(\frac{4000 \times 9.81}{40} \right)^{1/2} = 31.3049 \text{ rad/sec}$
 $\omega = 2 \pi \times 15 = 94.2478 \text{ rad/sec}$

$$X = \delta_{st} \left| \frac{1}{1 - \left(\frac{\omega}{\omega_n} \right)^2} \right| = 0.01 \left| \frac{1}{1 - \left(\frac{94.2478}{31.3049} \right)^2} \right| = 0.0187 \text{ m}$$

3.2 $T_1 = \frac{2\pi}{\omega_n - \omega} = \frac{2\pi}{2\pi(40.0 - 39.8)} = 5 \text{ sec}$

3.3 $k = 4000 \text{ N/m}$, $m = 10 \text{ kg}$, $F(t) = 400 \cos 10t \text{ N}$
 $F_0 = 400 \text{ N}$, $\omega = 10 \text{ rad/s}$
 $\omega_n = \sqrt{\frac{k}{m}} = 20 \text{ rad/s}$, $\frac{\omega^2}{\omega_n^2} = \frac{10}{20} = 0.5 < 1$
 Response is given by Eq. (3.9):

$$x(t) = \left(x_0 - \frac{F_0}{k - m\omega^2} \right) \cos \omega_n t + \left(\frac{\dot{x}_0}{\omega_n} \right) \sin \omega_n t + \frac{F_0}{k - m\omega^2} \cos \omega t \quad (E-1)$$

(a) $x_0 = 0.1$, $\dot{x}_0 = 0$:

Eq. (E-1) becomes

$$x(t) = \left\{ 0.1 - \frac{400}{4000 - 10(100)} \right\} \cos 20t + \frac{400}{4000 - 10(100)} \cos 10t$$

$$= -0.033333 \cos 20t + 0.133333 \cos 10t \quad (E-2)$$

(b) $x_0 = 0$, $\dot{x}_0 = 10$:

Eq. (E-1) becomes

$$x(t) = \left\{ 0 - \frac{400}{4000 - 10(100)} \right\} \cos 20t + \frac{10}{20} \sin 20t$$

$$+ \left\{ \frac{400}{4000 - 10(100)} \right\} \cos 10t$$

$$= -0.133333 \cos 20t + 0.5 \sin 20t + 0.133333 \cos 10t \quad (E-3)$$

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David Kirk



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Dynamics of Structure and Foundation - A Unified Approach Indrajit Chowdhury, Shambhu P. Dasgupta, 2008-12-17 Designed to provide engineers with quick access to current and practical information on the dynamics of structure and foundation this unique work consisting of two separately available volumes serves as a complete reference especially for those involved with earthquake or dynamic analysis or the design of machine foundations in the oil gas and petrochemical industries **Books in Print**, 1977

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Elements of Classical and Geometric Optimization Debasish Roy, G Visweswara Rao, 2024-01-25 This comprehensive textbook covers both classical and geometric aspects of optimization using methods deterministic and stochastic in a single volume and in a language accessible to non mathematicians It will help serve as an ideal study material for senior undergraduate and graduate students in the fields of civil mechanical aerospace electrical electronics and communication engineering The book includes Derivative based Methods of Optimization Direct Search Methods of Optimization Basics of Riemannian Differential Geometry Geometric Methods of Optimization using Riemannian Langevin Dynamics Stochastic Analysis on Manifolds and Geometric Optimization Methods This textbook comprehensively treats both classical and geometric optimization methods including deterministic and stochastic Monte Carlo schemes It offers an extensive coverage of important topics including derivative based methods penalty function methods method of gradient projection evolutionary methods geometric search using Riemannian Langevin dynamics and stochastic dynamics on manifolds The textbook is accompanied by online resources including MATLAB codes which are uploaded on our website The textbook is primarily written for senior undergraduate and graduate students in all applied science and engineering disciplines and can be used as a main or supplementary text for courses on classical and geometric optimization

Mechanical Vibration, 5th Edition, Solutions Manual Haym Benaroya, Mark Nagurka, Seon Mi Han, 2022-07-15 No detailed description available for Mechanical Vibration 5th Edition Solutions Manual

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