

Chapter 3

Harmonically Excited Vibration

3.1 (a) $\delta = \frac{W}{k} = \frac{80}{4000} = 0.02 \text{ m}$
 (b) $\delta_{st} = \frac{F_0}{k} = \frac{80}{4000} = 0.02 \text{ m}$
 (c) $\omega_n = \sqrt{\frac{k}{m}} = \left(\frac{4000 \times 9.81}{80} \right)^{1/2} = 22.0243 \text{ rad/sec}$
 $\omega = 2 \text{ Hz} = 12.5664 \text{ rad/sec}$

$$X = \delta_{st} \left| \frac{1}{1 - \left(\frac{\omega}{\omega_n} \right)^2} \right| = 0.02 \left| \frac{1}{1 - \left(\frac{12.5664}{22.0243} \right)^2} \right| = 0.0285 \text{ m}$$

3.2 $T_1 = \frac{2\pi}{\omega_n - \omega} = \frac{2\pi}{12.5664 - 12.5664} = \infty \text{ sec}$

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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Padhraic Smyth



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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

Dynamics of Structure and Foundation - A Unified Approach Indrajit Chowdhury, Shambhu P. Dasgupta, 2008-12-18 The second part of this well illustrated guide is dedicated to applications in various civil engineering problems related to dynamic soil structure interaction machine foundation and earthquake engineering The book presents innovative easy to apply and practical solutions to various problems and difficulties that a design engineer will encounter The book focuses on dynamic soil structure interaction DSSI the analysis and design of machine foundations and the analytical and design concepts for earthquake engineering

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Heat Exchangers Kuppan Thulukkanam, 2024-02-29 Heat Exchangers Operation Performance and Maintenance Third Edition covers heat exchanger installation commissioning and operation and maintenance and performance monitoring in service Focusing on in service issues like flow induced vibration corrosion and corrosion control and fouling and fouling control the book explores performance deterioration in service maintenance issues defects tube failures and how to detect these issues with NDT methods It discusses various cleaning processes and repair methods The book also considers boilers utility boilers coal based thermal power plants boiler corrosion and boiler degradation mechanisms It discusses different types of cooling systems feedwater treatment deaerators feedwater heaters economizers condensers cooling towers and cooling water management The book serves as a useful reference for researchers graduate students power plant engineers and engineers in the field of heat exchanger design including pressure vessel manufacturers

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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 **The Finite Element Method** G.R. Liu, S. S. Quek, 2013-08-07 Written for practicing engineers and students alike this book emphasizes the role of finite element modeling and simulation in the engineering design process. It provides the necessary theories and techniques of the FEM in a concise and easy to understand format and applies the techniques to civil mechanical and aerospace problems. Updated throughout for current developments in FEM and FEM software the book also includes case studies, diagrams, illustrations and tables to help demonstrate the material. Plentiful diagrams, illustrations and tables demonstrate the material. Covers modeling techniques that predict how components will operate and tolerate loads, stresses and strains in reality. Full set of PowerPoint presentation slides that illustrate and support the book available on a companion website. *Finite Element Method* G.R. Liu, S. S. Quek, 2003-02-21 The Finite Element Method FEM has become an indispensable technology for the modelling and simulation of engineering systems. Written for engineers and students alike the aim of the book is to provide the necessary theories and techniques of the FEM for readers to be able to use a commercial FEM package to solve primarily linear problems in mechanical and civil engineering with the main focus on structural mechanics and heat transfer. Fundamental theories are introduced in a straightforward way and state of the art techniques for designing and analyzing engineering systems including microstructural systems are explained in detail. Case studies are used to demonstrate these theories, methods, techniques and practical applications and numerous diagrams and tables are used throughout. The case studies and examples use the commercial software package ABAQUS but the techniques explained are equally applicable for readers using other applications including NASTRAN, ANSYS, MARC etc. A practical and accessible guide to this complex yet important subject. Covers modeling techniques that predict how components will operate and tolerate loads, stresses and strains in reality. *The Publishers' Trade List Annual*, 1967

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Methodology, DTM '92 Dean Taylor, Larry A. Stauffer, 1992 **Subject Guide to Books in Print**, 1971 American
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web jan 1 2011 lemonade mouth back among the walls from their cd live at the bash lemonade mouth is the story of five socially struggling high school freshman who come together through a combination of chance and the wisdom of a sorely

misused music teacher to form the legendary band lemonade mouth