

## 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

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

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

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

# Solution Manual Vibration 4th Edition Rao

**G.R. Liu, S. S. Quek**



### **Solution Manual Vibration 4th Edition Rao:**

*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

**Heat Exchangers** Kuppam 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 **Books in Print Supplement**, 1985

*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

*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 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 **Applied Mechanics Reviews**, 1989 The Publishers' Trade List Annual, 1967 *Catalog of Copyright Entries. Third Series* Library of Congress. Copyright Office, 1973 International Books in Print, 1987 **Design Theory and Methodology, DTM '92** Dean Taylor, Larry A. Stauffer, 1992 **American Scientist**, 1942 Subject Guide to Books in Print, 1971 **The English Catalogue of Books** Sampson Low, 1966 Vols for 1898 1968 include a directory of publishers **Aeronautical Engineering**, 1990 A selection of annotated references to unclassified reports and journal articles that were introduced into the NASA scientific and technical information system and announced in Scientific and technical aerospace reports STAR and International aerospace abstracts IAA **Catalog of Copyright Entries, Third Series** Library of Congress. Copyright Office, 1971 The record of each copyright registration listed in the Catalog includes a description of the work copyrighted and data relating to the copyright claim the name of the copyright claimant as given in the application for registration the copyright date the copyright registration number etc **Mechanical Vibrations** Singiresu S. Rao, 1995 This text serves as an introduction to the subject of vibration engineering at the undergraduate level The style of the prior editions has been retained with the theory computational aspects and applications of vibrations presented in as simple a manner as possible As in the previous editions computer techniques of analysis are emphasized Expanded explanations of the fundamentals are given emphasizing physical significance and interpretation that build upon

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