

5.44

mass of tup: 2000 kg,
mass of frame: 20000 kg,
mass of anvil: 30000 kg,
mass of foundation block: 65000 kg,
stiffness of elastic pad: 1 GPa,
stiffness of isolation: 500 MPa,
striking velocity of tup: 4.5 m/s.

Solution:

(a) Natural frequencies of the system:

From problem 5.1,

$$\omega_{1,2}^2 = \frac{k_1 + k_2}{2 m_1} + \frac{k_2}{2 m_2} \pm \sqrt{\frac{1}{4} \left(\frac{k_1 + k_2}{m_1} + \frac{k_2}{m_2} \right)^2 - \frac{k_1 k_2}{m_1 m_2}}$$

$$\omega_{1,2}^2 = \frac{1.5 \times 10^9}{130000} + \frac{10^9}{100000} \pm \sqrt{\frac{1}{4} \left(\frac{1.5 \times 10^9}{65000} + \frac{10^9}{50000} \right)^2 - \frac{500 \times 10^{15}}{3.25 \times 10^9}}$$

or $\omega_1 = 62.6894 \text{ rad/sec.}$

$\omega_2 = 197.8559 \text{ rad/sec.}$

(b) Initial conditions of the system:

Let $\dot{\theta}_2$ = initial velocity of anvil and frame just after the impact of tup.

From conservation of momentum principle, momentum of tup plus momentum of m_2 just before impact = momentum of tup plus momentum of m_2 just after impact.

i.e. $m_{\text{tup}} \dot{\theta}_{\text{tup}} + m_2 (0) = m_{\text{tup}} \dot{\theta}_0 + m_2 \dot{\theta}_2$ (E₁)

where $\dot{\theta}_0$ = velocity of rebound of tup after impact

Also,

$$\text{Coefficient of restitution (e)} = \left(\frac{\text{relative velocity after impact}}{\text{relative velocity before impact}} \right)$$

i.e. $e = \frac{\dot{\theta}_2 - \dot{\theta}_0}{\dot{\theta}_{\text{tup}}} \quad \text{or} \quad \dot{\theta}_0 = \dot{\theta}_2 - e \dot{\theta}_{\text{tup}}$ (E₂)

From Eqs. (E₁) and (E₂),

$$\dot{\theta}_2 = \frac{m_{\text{tup}} \dot{\theta}_{\text{tup}} (1 + e)}{m_{\text{tup}} + m_2}$$

For given data,

$$\dot{\theta}_2 = \frac{2000 (-4.5) (1 + 0.5)}{2000 + 50000} = -0.2596 \text{ m/s}$$

\therefore Initial conditions are:

$$x_1(0) = 0, \quad \dot{x}_1(0) = 0, \quad x_2(0) = 0, \quad \dot{x}_2(0) = -0.2596 \text{ m/s.}$$



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K Morrison



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Proceedings of the 10th International Conference on Industrial Engineering Andrey A. Radionov, Vadim R. Gasiyarov, 2024-07-20 This book highlights recent findings in industrial manufacturing and mechanical engineering and provides an overview of the state of the art in these fields mainly in Russia and Eastern Europe A broad range of topics and issues in modern engineering is discussed including the machinery and mechanism design dynamics of machines and working processes friction wear and lubrication in machines design and manufacturing engineering of industrial facilities transport and technological machines mechanical treatment of materials industrial hydraulic systems This book gathers selected papers presented at the 10th International Conference on Industrial Engineering ICIE held in Sochi Russia in May 2024 The authors are experts in various fields of engineering and all papers have been carefully reviewed Given its scope this book will be of interest to a wide readership including mechanical and production engineers lecturers in engineering disciplines and engineering graduates

Engineering Vibration Analysis with Application to Control Systems C. Beards, 1995-06-17 Most machines and structures are required to operate with low levels of vibration as smooth running leads to reduced stresses and fatigue and little noise This book provides a thorough explanation of the principles and methods used to analyse the vibrations of engineering systems combined with a description of how these techniques and results can be applied to the study of control system dynamics Numerous worked examples are included as well as problems with worked solutions and particular attention is paid to the mathematical modelling of dynamic systems and the derivation of the equations of motion All engineers practising and student should have a good understanding of the methods of analysis available for predicting the vibration response of a system and how it can be modified to produce acceptable results This text provides an invaluable insight into both

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Mechanics And Mechatronics (Icmm2015) - Proceedings Of The 2015 International Conference A Mehran Shahhosseini,2015-11-02 This proceedings brings together one hundred and fifty two selected papers presented at the 2015 International Conference on Mechanics and Mechatronics ICMM 2015 which was held in Changsha Hunan China during March 13 15 2015 ICMM 2015 focuses on 7 main areas Applied Mechanics Mechanical Engineering Instrumentation Automation and Robotics Computer Information Processing and Civil Engineering Experts in this field from eight countries including China South Korea Taiwan Japan Malaysia Hong Kong Indonesia and Saudi Arabia contributed to the collection of research results and developments ICMM 2015 provides an excellent international platform for researchers to share their knowledge and results in theory methodology and applications of Applied Mechanics and Mechatronics All papers selected to this proceedings were subject to a rigorous peer review process by at least two independent peers The papers are selected based on innovation organization and quality of presentation

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Nonlinear Vibration and Dynamics of Smart Continuous Structures and Materials Majid Ghadiri,2025-05-08 Nonlinear Vibration and Dynamics of Smart Continuous Structures and Materials delves into intricate subjects concerning the analysis of nonlinear vibration issues in continuous structures It

covers general concepts and a history of nonlinear systems before evolving into kinetics and solution methods of continuous structures Exploring the implementation of new types of materials in various sectors of automobile aerospace and structural engineering the book provides applicable information on the behaviors of smart structures The book provides a set of mathematical formulations to solve nonlinear static and dynamic behaviors of smart continuous structures by applying principles of elasticity The book will interest academic researchers and graduate students studying structural engineering mechanics of solids and smart materials

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Mechanical vibrations Singiresu S. Rao,1986-06-01 **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 a **Whitaker's Books in Print** ,1990 *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 **Aerospace Materials and Material Technologies** N. Eswara Prasad,R.J.H. Wanhill,2016-11-07 This book serves as a comprehensive resource on various traditional advanced and futuristic material technologies for aerospace applications encompassing nearly 20 major areas Each of the chapters addresses scientific principles behind processing and production production details equipment and facilities for industrial production and finally aerospace application areas of these material technologies The chapters are authored by pioneers of industrial aerospace material technologies This book has a well planned layout in 4 parts The first part deals with primary metal and material processing including nano manufacturing The second part deals with materials characterization and testing methodologies and technologies The third part addresses structural design Finally several advanced material technologies are covered in the fourth part Some key advanced topics such as Structural Design by ASIP Damage Mechanics

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