

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,

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

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

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

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

(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.

$$\text{i.e. } m_{\text{tup}} \dot{\theta}_{\text{tup}} + m_2 (0) = m_{\text{tup}} \dot{\theta}_0 + m_2 \dot{\theta}_2 \quad (E_1)$$

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

Also,

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

$$\text{i.e. } e = \frac{\dot{\theta}_2 - \dot{\theta}_0}{\dot{\theta}_{\text{tup}}} \quad \text{or } \dot{\theta}_0 = \dot{\theta}_2 - e \dot{\theta}_{\text{tup}} \quad (E_2)$$

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:

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



Mechanical Vibrations Rao Solution Manual 4th

Huangqi Zhang



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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 **Proceedings of the 9th International Conference on Industrial**

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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 *International Books in Print* ,1987 *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* **Vibration of Rotating Systems** K. W. Wang, Dan Segalman, 1993

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