



Solution:

(a) Natural frequencies of the system:

$$\omega_{1,2}^2 = \frac{\mathbf{k}_1 + \mathbf{k}_2}{2 \, \mathbf{m}_1} + \frac{\mathbf{k}_2}{2 \, \mathbf{m}_2} \mp \sqrt{\frac{1}{4} \left(\frac{\mathbf{k}_1 + \mathbf{k}_2}{\mathbf{m}_1} + \frac{\mathbf{k}_2}{\mathbf{m}_2} \right)^2 - \frac{\mathbf{k}_1 \, \mathbf{k}_2}{\mathbf{m}_1 \, \mathbf{m}_2}}$$

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

- or $\omega_1 = 62.6894$ rad/sec. $\omega_2 = 197.8559$ rad/sec.
- (b) Initial conditions of the system:

Let ϑ_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.
$$m_{tup} \vartheta_{tup} + m_2 (0) = m_{tup} \vartheta_0 + m_2 \vartheta_2$$
 (E₁)

where ϑ_0 = velocity of rebound of tup after impact Also.

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

i.e.
$$e = \frac{\vartheta_2 - \vartheta_0}{\vartheta_{tup}}$$
 or $\vartheta_0 = \vartheta_2 - e \vartheta_{tup}$ (E₂)

From Eqs. (E_1) and (E_2) ,

$$\vartheta_2 = \frac{m_{tup} \vartheta_{tup} (1 + e)}{m_{tup} + m_2}$$

For given data,

$$\theta_2 = \frac{2000 (-4.5) (1 + 0.5)}{2000 + 50000} = -0.2596 \text{ m/s}$$

... Initial conditions are:
x, (0) = 0, x, (0) = 0, x₂ (0) = 0, x₃ (0) = -0.2596 m/s.

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M Lipman

Mechanical Vibrations Rao Solution Manual 4th:

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 **Engineering Vibration Analysis with Application to Control Systems** C. disciplines and engineering graduates 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 Engineering** Andrey A. Radionov, Vadim R. Gasiyarov, 2023-08-28 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 9th International Conference on Industrial Engineering ICIE held in Sochi Russia in May 2023 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 Vehicle Vibrations Reza N. Jazar, Hormoz Marzbani, 2024-01-10 Vehicle Vibrations Linear and Nonlinear Analysis Optimization and Design is a self contained textbook that offers complete coverage of vehicle vibration topics from basic to advanced levels Written and

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