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Chapter 2

Free Vibration of Single Degree of Freedom Systems

(2.1) $k_s = 5 \times 10^5 \text{ N/m}$
 $\omega_n = \left(\frac{k_s}{m} \right)^{1/2} = \left(\frac{5 \times 10^5}{8 \times 10^3} \right)^{1/2} = 44.7214 \text{ rad/sec} = 7.0437 \text{ Hz}$

(2.2) $\tau_n = 0.21 \text{ sec} = 2\pi \sqrt{\frac{m}{k_s}} \quad \therefore \quad \sqrt{m} = 0.21 \sqrt{k_s} / 2\pi$
 (i) $(\tau_n)_{\text{new}} = \frac{2\pi \sqrt{m}}{\sqrt{k_{\text{new}}}} = \frac{2\pi \sqrt{m}}{\sqrt{1.5 k_s}} = \frac{2\pi \left(\frac{0.21 \sqrt{k_s}}{2\pi} \right)}{\sqrt{1.5 k_s}} = 0.1715 \text{ sec.}$
 (ii) $(\tau_n)_{\text{new}} = \frac{2\pi \sqrt{m}}{\sqrt{k_{\text{new}}}} = \frac{2\pi \sqrt{m}}{\sqrt{0.5 k_s}} = 2\pi \left(\frac{0.21 \sqrt{k_s}}{2\pi} \right) \sqrt{\frac{1}{0.5 k_s}} = 0.2372 \text{ sec.}$

(2.3) $\omega_n = 42.432 \text{ rad/sec} = \sqrt{\frac{k_s}{m}} \quad \therefore \quad \sqrt{m} = \sqrt{k_s} / 42.432$
 When spring constant is reduced, ω_n decreases.
 $(\omega_n)_{\text{new}} = 0.55 \omega_n = 23.3376 \text{ rad/sec} = \sqrt{\frac{k_{\text{new}}}{m_{\text{new}}}} = \sqrt{\frac{k_{\text{new}}}{m}}$
 $\sqrt{\frac{k_{\text{new}}}{m}} = 23.3376 = 0.55 \omega_n \quad \therefore \quad \sqrt{\frac{k_{\text{new}}}{m}} = 0.55$
 $\frac{k_{\text{new}}}{m} = (0.55)^2 = 0.3025$
 $k_{\text{new}} = 1146.3514 \text{ N/m}$
 $\sqrt{m} = \sqrt{k_s} / 42.432 \quad \therefore \quad m = k_s / 42.432^2 = \frac{1146.3514}{1797.8002}$
 $m = 0.2205 \text{ kg}$

(2.4) $k = 100 / \left(\frac{10}{1000} \right) = 10000 \text{ N/m}$

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Mechanical Vibrations Rao V. Dukkipati, 2010 Mechanical Vibrations designed as a text for senior undergraduate and graduate students covers both analytical and physical aspects of mechanical vibrations Each chapter consists of a concise but thorough fundamental statement of the theory principles and methods The classical methods of mechanical vibrations i e free vibration of single degree of freedom systems harmonically forced vibrations of single degree of freedom systems general forcing conditions and response two degree of freedom systems multi degree of freedom systems analytical dynamics Lagrange's equation of motion vibration of continuous systems and approximate methods for finding natural frequencies and mode shapes dynamic response by direct numerical integration methods vibration control and introduction to finite element method are covered in detail In addition to students practicing engineers should find this book immensely useful All the end of chapter problems are fully solved in the Solution Manual available only to Instructors

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1. Understanding the eBook Solutions Manual Mechanical Vibration Rao Dukkipati
 - The Rise of Digital Reading Solutions Manual Mechanical Vibration Rao Dukkipati
 - Advantages of eBooks Over Traditional Books
2. Identifying Solutions Manual Mechanical Vibration Rao Dukkipati
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Solutions Manual Mechanical Vibration Rao Dukkipati
 - User-Friendly Interface
4. Exploring eBook Recommendations from Solutions Manual Mechanical Vibration Rao Dukkipati

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- Solutions Manual Mechanical Vibration Rao Dukupati User Reviews and Ratings
- Solutions Manual Mechanical Vibration Rao Dukupati and Bestseller Lists
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 - Solutions Manual Mechanical Vibration Rao Dukupati Budget-Friendly Options
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 - Solutions Manual Mechanical Vibration Rao Dukupati Enhanced eBook Features
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 - Highlighting and Note-Taking Solutions Manual Mechanical Vibration Rao Dukupati
 - Interactive Elements Solutions Manual Mechanical Vibration Rao Dukupati
- 8. Staying Engaged with Solutions Manual Mechanical Vibration Rao Dukupati
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Solutions Manual Mechanical Vibration Rao Dukupati
- 9. Balancing eBooks and Physical Books Solutions Manual Mechanical Vibration Rao Dukupati
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Solutions Manual Mechanical Vibration Rao Dukupati
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Solutions Manual Mechanical Vibration Rao Dukupati
 - Setting Reading Goals Solutions Manual Mechanical Vibration Rao Dukupati
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Solutions Manual Mechanical Vibration Rao Dukupati

- Fact-Checking eBook Content of Solutions Manual Mechanical Vibration Rao Dukupati
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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