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- (a) Let P = total spring force, F = centrifugal force acting on each ball. Equilibrium of moments about the pivot of bell crank lever (O) gives:

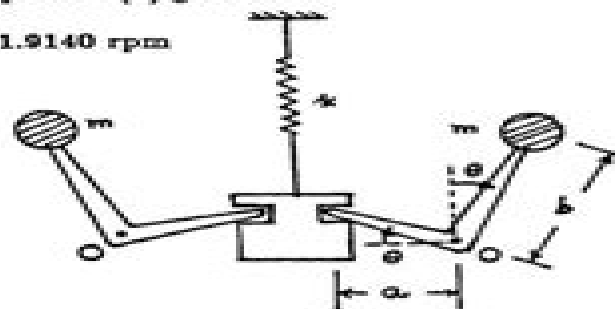
$$F \left(\frac{20}{100} \right) = \frac{P}{2} \left(\frac{12}{100} \right) \quad (1)$$

When $P = 10^4 \left(\frac{1}{100} \right) = 100 \text{ N}$, and

$$F = m r \omega^2 = m r \left(\frac{2 \pi N}{60} \right)^2 = \frac{25}{9.81} \left(\frac{16}{100} \right) \left(\frac{2 \pi N}{60} \right)^2 = 0.004471 \text{ N}^2$$

where N = speed of the governor in rpm. Equation (1) gives:

$$0.004471 \text{ N}^2 (0.2) = \frac{100}{2} (0.12) \quad \text{or} \quad N = 81.9140 \text{ rpm}$$



- (b) Consider a small displacement of the ball arm about the vertical position. Equilibrium about point O gives:

$$(m b^2) \ddot{\theta} + (k a \sin \theta) a \cos \theta = 0 \quad (2)$$

For small values of θ , $\sin \theta \approx \theta$ and $\cos \theta \approx 1$, and hence Eq. (2) gives

$$m b^2 \ddot{\theta} + k a^2 \theta = 0$$

from which the natural frequency can be determined as

$$\omega_n = \left\{ \frac{k a^2}{m b^2} \right\}^{\frac{1}{2}} = \left\{ (10)^4 \left(\frac{0.12}{0.20} \right)^2 \frac{9.81}{25} \right\}^{\frac{1}{2}} = 37.5851 \text{ rad/sec}$$

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Table of Contents Chapter Two Solution Manual Rao Vibrations

1. Understanding the eBook Chapter Two Solution Manual Rao Vibrations
 - The Rise of Digital Reading Chapter Two Solution Manual Rao Vibrations
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter Two Solution Manual Rao Vibrations
 - 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 Chapter Two Solution Manual Rao Vibrations
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter Two Solution Manual Rao Vibrations
 - Personalized Recommendations
 - Chapter Two Solution Manual Rao Vibrations User Reviews and Ratings
 - Chapter Two Solution Manual Rao Vibrations and Bestseller Lists
5. Accessing Chapter Two Solution Manual Rao Vibrations Free and Paid eBooks
 - Chapter Two Solution Manual Rao Vibrations Public Domain eBooks
 - Chapter Two Solution Manual Rao Vibrations eBook Subscription Services
 - Chapter Two Solution Manual Rao Vibrations Budget-Friendly Options

6. Navigating Chapter Two Solution Manual Rao Vibrations eBook Formats
 - ePub, PDF, MOBI, and More
 - Chapter Two Solution Manual Rao Vibrations Compatibility with Devices
 - Chapter Two Solution Manual Rao Vibrations Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chapter Two Solution Manual Rao Vibrations
 - Highlighting and Note-Taking Chapter Two Solution Manual Rao Vibrations
 - Interactive Elements Chapter Two Solution Manual Rao Vibrations
8. Staying Engaged with Chapter Two Solution Manual Rao Vibrations
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chapter Two Solution Manual Rao Vibrations
9. Balancing eBooks and Physical Books Chapter Two Solution Manual Rao Vibrations
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chapter Two Solution Manual Rao Vibrations
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Chapter Two Solution Manual Rao Vibrations
 - Setting Reading Goals Chapter Two Solution Manual Rao Vibrations
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Chapter Two Solution Manual Rao Vibrations
 - Fact-Checking eBook Content of Chapter Two Solution Manual Rao Vibrations
 - 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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