

JEE Main 2020 Paper



Let T_1 be the time period in ground state and T_2 be the time period in it's first excited state.

$$T_1 = \frac{n^3}{2^2}$$

(Where, n = excitation level and 2 is atomic no.)

$$\frac{T_1}{T_2} = \left(\frac{n_1}{n_2}\right)^3$$

Given,

$$T_1 = 1.6 \times 10^{-16} \text{ s}$$

So,

$$\frac{1.6 \times 10^{-16}}{T_2} = \left(\frac{1}{2}\right)^3$$

$$T_2 = 12.8 \times 10^{-16} \text{ s}$$

Frequency is given by $f = \frac{1}{T}$

$$f = \frac{1}{12.8} \times 10^{16} \text{ Hz}$$

$$f = 7.8128 \times 10^{14} \text{ Hz}$$

11. A LCR circuit behaves like a damped harmonic oscillator. Comparing it with a physical spring-mass damped oscillator having damping constant 'b', the correct equivalence will be

a. $L \leftrightarrow \frac{1}{b}, C \leftrightarrow \frac{1}{m}, R \leftrightarrow \frac{1}{k}$

b. $L \leftrightarrow k, C \leftrightarrow b, R \leftrightarrow m$

c. $L \leftrightarrow m, C \leftrightarrow k, R \leftrightarrow b$

d. $L \leftrightarrow m, C \leftrightarrow \frac{1}{k}, R \leftrightarrow b$

Solution:(d)

For damped oscillator by Newton's second law

$$-kx - bv = ma$$

$$kx + bv + ma = 0$$

$$kx + b \frac{dx}{dt} + m \frac{d^2x}{dt^2} = 0$$

For LCR circuit by KVL

$$-IR - L \frac{dI}{dt} - \frac{q}{c} = 0$$

$$\Rightarrow IR + L \frac{dI}{dt} + \frac{q}{c} = 0$$

$$\Rightarrow \frac{q}{c} + R \frac{dq}{dt} + L \frac{d^2q}{dt^2} = 0$$

By comparing

$$R \Rightarrow b$$

Jan Physics Paper As

Mike Jess



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Jan Physics Paper As Book Review: Unveiling the Magic of Language

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Table of Contents Jan Physics Paper As

1. Understanding the eBook Jan Physics Paper As
 - The Rise of Digital Reading Jan Physics Paper As
 - Advantages of eBooks Over Traditional Books
2. Identifying Jan Physics Paper As
 - 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 Jan Physics Paper As
 - User-Friendly Interface
4. Exploring eBook Recommendations from Jan Physics Paper As
 - Personalized Recommendations
 - Jan Physics Paper As User Reviews and Ratings
 - Jan Physics Paper As and Bestseller Lists
5. Accessing Jan Physics Paper As Free and Paid eBooks

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