

MISCELLANEOUS EXERCISE

Question 1:

Let $A = \begin{pmatrix} 0 & 1 \\ 0 & 0 \end{pmatrix}$, show that $(aI + bA)^n = a^n I + na^{n-1}bA$, where I is the identity matrix of order 2 and $n \in \mathbb{N}$.

Solution:

It is given that $A = \begin{pmatrix} 0 & 1 \\ 0 & 0 \end{pmatrix}$

We shall prove the result by using the principle of mathematical induction.

For $n = 1$, we have:

$$P(1): (aI + bA) = aI + ba^0A = aI + bA$$

Therefore, the result is true for $n = 1$.

Let the result be true for $n = k$

That is, $P(k): (aI + bA)^k = a^k I + ka^{k-1}bA$

Now, we have to prove that the result is true for $n = k + 1$.

Consider,

$$\begin{aligned} (aI + bA)^{k+1} &= (aI + bA)^k (aI + bA) \\ &= (a^k I + ka^{k-1}bA)(aI + bA) \\ &= a^{k+1}I + ka^k bAI + a^k bIA + ka^{k-1}b^2A^2 \\ &= a^{k+1}I + (k+1)a^k bA + ka^{k-1}b^2A^2 \quad \dots(1) \end{aligned}$$

Now,

$$A^2 = \begin{pmatrix} 0 & 1 \\ 0 & 0 \end{pmatrix} \begin{pmatrix} 0 & 1 \\ 0 & 0 \end{pmatrix} = \begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix} = 0$$

From (1), we have

$$\begin{aligned} (aI + bA)^{k+1} &= a^{k+1}I + (k+1)a^k bA + 0 \\ &= a^{k+1}I + (k+1)a^k bA \end{aligned}$$

Therefore, the result is true for $n = k + 1$.

Thus, by the principle of mathematical induction, we have:

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William L. Hart



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Table of Contents Miscellaneous Exercise On Chapter 3 Solution

1. Understanding the eBook Miscellaneous Exercise On Chapter 3 Solution
 - The Rise of Digital Reading Miscellaneous Exercise On Chapter 3 Solution
 - Advantages of eBooks Over Traditional Books
2. Identifying Miscellaneous Exercise On Chapter 3 Solution
 - 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 Miscellaneous Exercise On Chapter 3 Solution
 - User-Friendly Interface
4. Exploring eBook Recommendations from Miscellaneous Exercise On Chapter 3 Solution
 - Personalized Recommendations
 - Miscellaneous Exercise On Chapter 3 Solution User Reviews and Ratings

- Miscellaneous Exercise On Chapter 3 Solution and Bestseller Lists
- 5. Accessing Miscellaneous Exercise On Chapter 3 Solution Free and Paid eBooks
 - Miscellaneous Exercise On Chapter 3 Solution Public Domain eBooks
 - Miscellaneous Exercise On Chapter 3 Solution eBook Subscription Services
 - Miscellaneous Exercise On Chapter 3 Solution Budget-Friendly Options
- 6. Navigating Miscellaneous Exercise On Chapter 3 Solution eBook Formats
 - ePub, PDF, MOBI, and More
 - Miscellaneous Exercise On Chapter 3 Solution Compatibility with Devices
 - Miscellaneous Exercise On Chapter 3 Solution Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Miscellaneous Exercise On Chapter 3 Solution
 - Highlighting and Note-Taking Miscellaneous Exercise On Chapter 3 Solution
 - Interactive Elements Miscellaneous Exercise On Chapter 3 Solution
- 8. Staying Engaged with Miscellaneous Exercise On Chapter 3 Solution
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Miscellaneous Exercise On Chapter 3 Solution
- 9. Balancing eBooks and Physical Books Miscellaneous Exercise On Chapter 3 Solution
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Miscellaneous Exercise On Chapter 3 Solution
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Miscellaneous Exercise On Chapter 3 Solution
 - Setting Reading Goals Miscellaneous Exercise On Chapter 3 Solution
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Miscellaneous Exercise On Chapter 3 Solution
 - Fact-Checking eBook Content of Miscellaneous Exercise On Chapter 3 Solution
 - 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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web here the value of concentration of water is taken as 0 36 instead of 0 16 divide the product of the concentration of water carbon monoxide and the equilibrium constant by the concentration of hydrogen instead of multiplying it correct d the value of K_{eq} is taken as 4 4 instead of 0 44