

$$\int_{-\infty}^{\infty} f(y) dy = 1$$

$$\int_0^{\infty} ky^3 e^{-y/2} dy = 1$$

$$k \int_0^{\infty} y^3 e^{-y/2} dy = 1$$

$$k \int_0^{\infty} y^{4-1} e^{-y/2} dy = 1$$

$$k(2)^4 \Gamma(4) = 1$$

$$k(16)(3-1)! = 1$$

$$16k(3 \times 2) = 1$$

$$96k = 1$$

$$k = \frac{1}{96}$$

$$\left(\begin{array}{l} \text{Since } \int_0^{\infty} y^{\alpha-1} e^{-y/\beta} dy = \beta^{\alpha} \Gamma(\alpha) \\ \Rightarrow \beta = 2, \alpha = 4 \end{array} \right)$$

$$(\text{Since } \Gamma(n) = (n-1)!)$$

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Table of Contents Mathematical Statistics With Applications Problem Solutions

1. Understanding the eBook Mathematical Statistics With Applications Problem Solutions
 - The Rise of Digital Reading Mathematical Statistics With Applications Problem Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Mathematical Statistics With Applications Problem Solutions
 - 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 Mathematical Statistics With Applications Problem Solutions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematical Statistics With Applications Problem Solutions
 - Personalized Recommendations
 - Mathematical Statistics With Applications Problem Solutions User Reviews and Ratings
 - Mathematical Statistics With Applications Problem Solutions and Bestseller Lists
5. Accessing Mathematical Statistics With Applications Problem Solutions Free and Paid eBooks
 - Mathematical Statistics With Applications Problem Solutions Public Domain eBooks
 - Mathematical Statistics With Applications Problem Solutions eBook Subscription Services
 - Mathematical Statistics With Applications Problem Solutions Budget-Friendly Options

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 - Mathematical Statistics With Applications Problem Solutions Compatibility with Devices
 - Mathematical Statistics With Applications Problem Solutions Enhanced eBook Features
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 - Adjustable Fonts and Text Sizes of Mathematical Statistics With Applications Problem Solutions
 - Highlighting and Note-Taking Mathematical Statistics With Applications Problem Solutions
 - Interactive Elements Mathematical Statistics With Applications Problem Solutions
8. Staying Engaged with Mathematical Statistics With Applications Problem Solutions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mathematical Statistics With Applications Problem Solutions
9. Balancing eBooks and Physical Books Mathematical Statistics With Applications Problem Solutions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mathematical Statistics With Applications Problem Solutions
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mathematical Statistics With Applications Problem Solutions
 - Setting Reading Goals Mathematical Statistics With Applications Problem Solutions
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mathematical Statistics With Applications Problem Solutions
 - Fact-Checking eBook Content of Mathematical Statistics With Applications Problem Solutions
 - 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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