

Probability & Random Process

Formulas

UNIT-I (RANDOM VARIABLES)

1) Discrete random variable:

A random variable whose set of possible values is either finite or countably infinite is called discrete random variable.

Eg: (i) Let X represent the sum of the numbers on the 2 dice, when two dice are thrown. In this case the random variable X takes the values 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 and 12. So X is a discrete random variable.

(ii) Number of transmitted bits received in error.

2) Continuous random variable:

A random variable X is said to be continuous if it takes all possible values between certain limits.

Eg: The length of time during which a vacuum tube installed in a circuit functions is a continuous random variable, number of scratches on a surface, proportion of defective parts among 1000 tested, number of transmitted in error.

3)

Sl.No.	Discrete random variable	Continuous random variable
1	$\sum_{i=1}^{\infty} p(x_i) = 1$	$\int_{-\infty}^{\infty} f(x)dx = 1$
2	$F(x) = P[X \leq x]$	$F(x) = P[X \leq x] = \int_{-\infty}^x f(x)dx$
3	Mean = $E[X] = \sum_i x_i p(x_i)$	Mean = $E[X] = \int_{-\infty}^{\infty} xf(x)dx$
4	$E[X^2] = \sum_i x_i^2 p(x_i)$	$E[X^2] = \int_{-\infty}^{\infty} x^2 f(x)dx$
5	$\text{Var}(X) = E(X^2) - [E(X)]^2$	$\text{Var}(X) = E(X^2) - [E(X)]^2$
6	Moment = $E[X^r] = \sum_i x_i^r p_i$	Moment = $E[X^r] = \int_{-\infty}^{\infty} x^r f(x)dx$
7	M.G.F	M.G.F

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TD Snyder



Scitech Publications In Probability And Random Process In:

Whispering the Strategies of Language: An Emotional Quest through **Scitech Publications In Probability And Random Process In**

In a digitally-driven world wherever screens reign supreme and immediate transmission drowns out the subtleties of language, the profound techniques and psychological nuances hidden within phrases often get unheard. Yet, nestled within the pages of **Scitech Publications In Probability And Random Process In** a fascinating fictional prize pulsing with raw emotions, lies a fantastic journey waiting to be undertaken. Penned by a skilled wordsmith, this charming opus encourages readers on an introspective journey, delicately unraveling the veiled truths and profound affect resonating within the cloth of each word. Within the psychological depths with this moving evaluation, we will embark upon a honest exploration of the book is key styles, dissect its fascinating publishing type, and fail to the powerful resonance it evokes heavy within the recesses of readers hearts.

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Table of Contents Scitech Publications In Probability And Random Process In

1. Understanding the eBook Scitech Publications In Probability And Random Process In
 - The Rise of Digital Reading Scitech Publications In Probability And Random Process In
 - Advantages of eBooks Over Traditional Books
2. Identifying Scitech Publications In Probability And Random Process In
 - 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 Scitech Publications In Probability And Random Process In
 - User-Friendly Interface
4. Exploring eBook Recommendations from Scitech Publications In Probability And Random Process In

- Personalized Recommendations
 - Scitech Publications In Probability And Random Process In User Reviews and Ratings
 - Scitech Publications In Probability And Random Process In and Bestseller Lists
5. Accessing Scitech Publications In Probability And Random Process In Free and Paid eBooks
 - Scitech Publications In Probability And Random Process In Public Domain eBooks
 - Scitech Publications In Probability And Random Process In eBook Subscription Services
 - Scitech Publications In Probability And Random Process In Budget-Friendly Options
 6. Navigating Scitech Publications In Probability And Random Process In eBook Formats
 - ePub, PDF, MOBI, and More
 - Scitech Publications In Probability And Random Process In Compatibility with Devices
 - Scitech Publications In Probability And Random Process In Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Scitech Publications In Probability And Random Process In
 - Highlighting and Note-Taking Scitech Publications In Probability And Random Process In
 - Interactive Elements Scitech Publications In Probability And Random Process In
 8. Staying Engaged with Scitech Publications In Probability And Random Process In
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Scitech Publications In Probability And Random Process In
 9. Balancing eBooks and Physical Books Scitech Publications In Probability And Random Process In
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Scitech Publications In Probability And Random Process In
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Scitech Publications In Probability And Random Process In
 - Setting Reading Goals Scitech Publications In Probability And Random Process In
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Scitech Publications In Probability And Random Process In

- Fact-Checking eBook Content of Scitech Publications In Probability And Random Process In
 - 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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