

Solved Problems In Random Processes

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Solved Problems - Probability, Statistics and Random Processes
Solved Problems - Probability, Statistics and Random Processes Solved Problems In Random Processes Example 5 A random process is defined by $X(t) = T + (1 - t)Y$ where T is a uniform random variable in $(0,1)$. (a) Page 1/3

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Let Y_1, Y_2, Y_3, \dots be a sequence of i.i.d. random variables with mean $E Y_i = 0$ and $Var(Y_i) = 4$. Define the discrete-time random process $\{X(n), n \in \mathbb{N}\}$ as $X(n) = Y_1 + Y_2 + \dots + Y_n$, for all $n \in \mathbb{N}$. Find $E X(n)$ and $R_X(m, n)$, for all $n, m \in \mathbb{N}$.

Solved Problems - Probability, Statistics and Random Processes
Example 1. Consider the two-state, continuous-time Markov process with transition rate diagram for some positive constants A and B . The generator matrix is given by $Q = \begin{bmatrix} -A & A \\ B & -B \end{bmatrix}$. Solve the forward Kolmogorov equation for a given initial distribution

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Example 5 A random process is defined by $X(t) = T + (1 - t)Y$ where T is a uniform random variable in $(0,1)$. (a) Find the cdf of $X(t)$. (b) Find $m_X(t)$ and $CX(t_1, t_2)$. Solution Given that $X(t) = T + (1 - t)Y$, where T is uniformly distributed over $(0,1)$, we then have $P\{X(t) \leq x\} = P\{T \leq x + (1 - t)Y\} = P\{T \leq x + (1 - t)Y | Y = y\} = P\{T \leq x + (1 - t)y\} = y$, then

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Statistical Characteristics of a Random Process, Stationarity | More Problems 1. Consider random process $X(t) = \int_{-\infty}^t \cos(t-\tau) dW(\tau)$, where \int is constant, $W(t)$ is random process that is 1st order stationary and does not depend on \int . W is random variable. Find the conditions that \int should satisfy to make random process $X(t)$ wide sense stationary. Hint: consider autocorrelation

Problem Sheet 1 Examples of Random Processes
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