

# Multiple Random Processes



## Multiple Random Processes

- Defined on the same sample space (e.g., see  $X(t)$  and  $Y(t)$  above)
- For communications, limit to two random processes

## Independent Random Processes $X(t)$ and $Y(t)$

- If random variables  $X(t_1)$  and  $Y(t_2)$  are independent for all  $t_1$  and  $t_2$

## Uncorrelated Random Processes $X(t)$ and $Y(t)$

- If random variables  $X(t_1)$  and  $Y(t_2)$  are uncorrelated for all  $t_1$  and  $t_2$

## Jointly wide-sense stationary

- If  $X(t)$  and  $Y(t)$  are both individually wss
- The cross-correlation function  $R_{XY}(t_1, t_2)$  depends only on  $\tau = t_2 - t_1$

$$R_{XY}(t, t + \tau) = E[X(t)Y(t + \tau)] = R_{XY}(\tau)$$

# Random Processes

**L Cohen**



## **Random Processes:**

## **Random Processes** Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the energy of words has be much more evident than ever. They have the capability to inspire, provoke, and ignite change. Such may be the essence of the book **Random Processes**, a literary masterpiece that delves deep to the significance of words and their affect our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

<https://www.staging.gilderlehrman.org/results/detail/HomePages/Saga%20Of%20The%20Bluenose.pdf>

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