

modification of a stochastic process

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Defines modification

Let $\{X_t\}_{t\geq 0}$, $\{Y_t\}_{t\geq 0}$ be stochastic processes on (Ω, \mathcal{F}, P) . $\{X_t\}_{t\geq 0}$ is a modification of $\{Y_t\}_{t\geq 0}$ if

$$P[\{\omega : X_t(\omega) = Y_t(\omega)\}] = 1$$

for all $t \in [0, \infty)$.

References

[1] Bernt Øksendal. , 5th ed Springer 1998.