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probability  $1/3$ . If  $P[A] = 1$ , the event takes place almost certainly. The probability measure  $P$  has to satisfy obvious properties like that the union  $A \hat{\cup} B$  of two disjoint events  $A, B$  satisfies  $P[A \hat{\cup} B] = P[A] + P[B]$  or that the complement  $A^c$  of an event  $A$  has the probability  $P[A^c] = 1 - P[A]$ .

### **Probability and Stochastic Processes with Applications**

S. Biswas, Applied Stochastic Processes, Wiley, New York 1995 Techniques of interest in population

dynamics, epidemiology, clinical drug trials, fertility and mortality analysis. J. Higgins & S. Keller-McNulty, Concepts in Probability and Stochastic Modeling Duxbury Press 1995 Covers traditional material; computer simulations complement theory. T.

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Chapter 1 Markov Chains A sequence of random variables  $X_0, X_1, \dots$  with values in a countable set  $S$  is a Markov chain if at any time  $n$ , the future states (or values)  $X_{n+1}, X_{n+2}, \dots$  depend only on the present state  $X_n$ . R. Serfozo, Basics of Applied Stochastic Processes, Probability and its Applications. c Springer-Verlag Berlin Heidelberg 2009 1. 2 1MarkovChains

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The long-awaited revision of Fundamentals of Applied Probability and Random Processes expands on the central components that made the first edition a classic. The title is based on the premise that engineers use probability as a modeling tool, and that probability can be applied to the solution of engineering problems.

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