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The probability that  $X$  lies within some small range can be approximated by and the expected value is then approximated by  $P(x) < X(x) + x^2 f(x) E(X) = P(x) \dots$  Stochastic Processes A random variable is a number assigned to every outcome of an experiment.  $X()$

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In this section we discuss the basic concept and theory of the probability and stochastic process. The central objects of probability theory are to develop the mathematic tool to analyze random variables, stochastic processes, and random events. It provides the systematic and mathematical approach for analyzing a wide class of random phenomena.

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