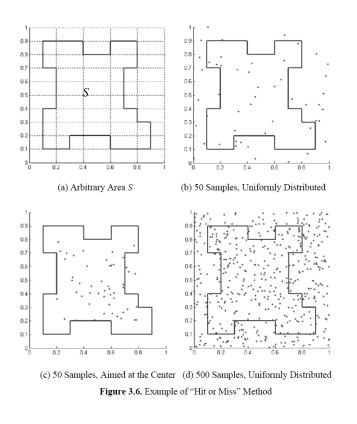




MCS dates back to about 1944 when von Neumann and Ulam introduced it as a code name for the secret work on nuclear weapons at the Los Alamos Scientific Laboratory



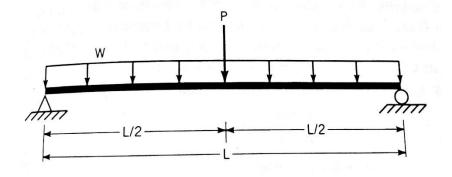
1. Define problem & RVs (w/ pdfs) 2. Generate random samples 3. Evaluate g(x)<04. Extract probabilistic information 5. Determine the accuracy and efficiency of the result

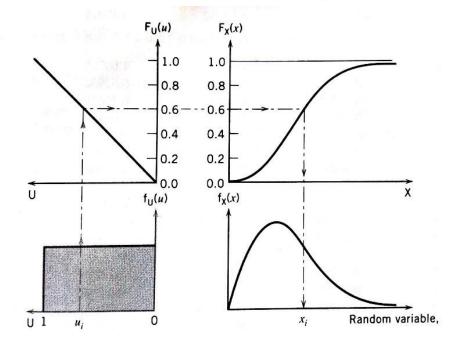


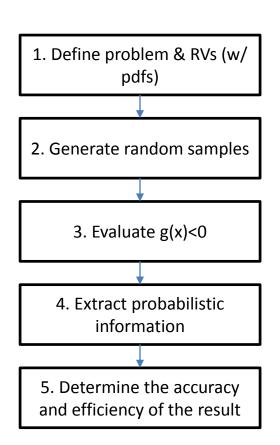
Monte Carlo Simulation cont'd













Latin Hypercube Sampling (LHS)



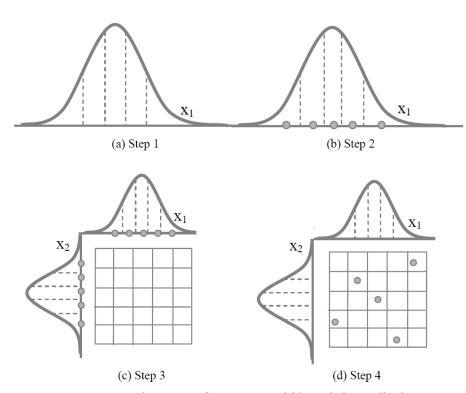


Figure 3.9. Basic Concept of LHS: Two Variables and Five Realizations

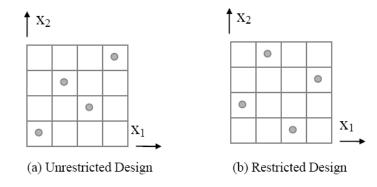


Figure 3.10. Two-dimensional LHS Designs for Four Realizations



