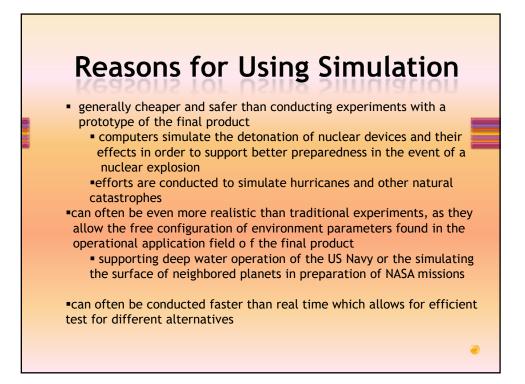
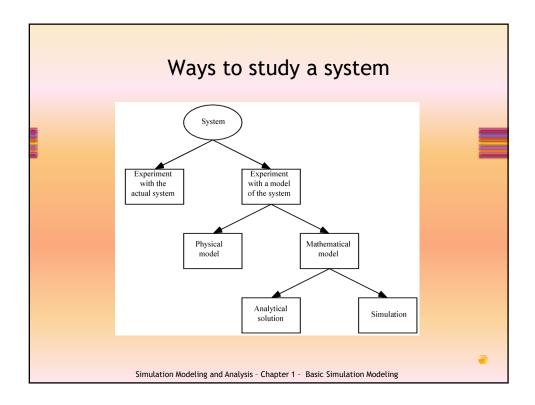
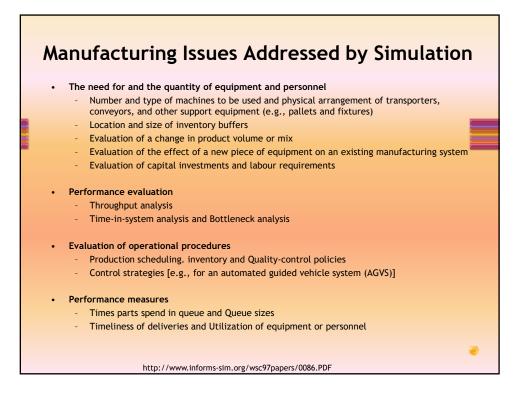
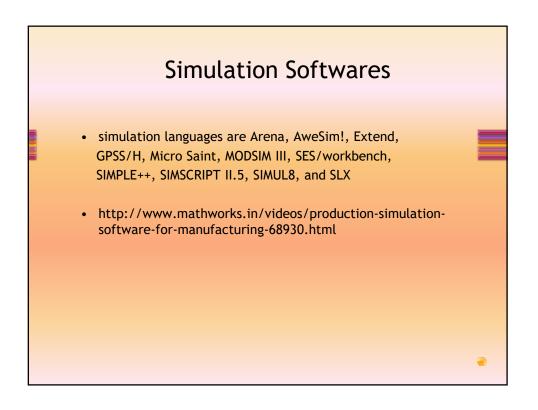


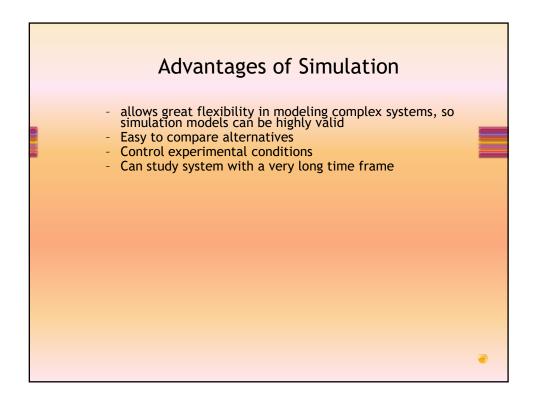
Types of Simulation
 static simulation not based on time involves drawing random samples to generate a statistical outcome, so it is sometimes called Monte Carlo simulation used in finance to select a portfolio of stocks and bonds; given a portfolio, with different probabilistic payouts, it is possible to generate an expected yield One material handling system supplier developed a static simulation model to calculate the expected time to travel from one rack location in a storage system to any other rack location. A random sample of 100 from-to relationships were used to estimate an average travel time if every from-to trip been calculated, a 1,000-location rack would have involved 1,000 factorial calculations
 Dynamic simulation includes the passage of time looks at state changes as they occur over time A clock mechanism moves forward in time and state variables are updated as time advances well suited for analyzing manufacturing and service systems since they operate over time

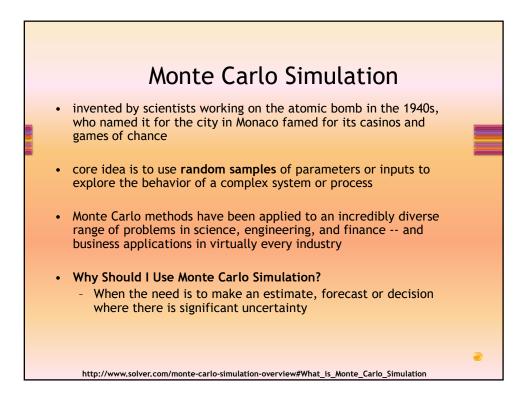












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Current Investment Average return per year	1,00,000 11.2%	
Standard Deviation of return (risk)	18%	
Time to retire (in years)	30	
Amount to invest (annually)	10,000.00	
variation in rate of return every ye	ear?	

