Probability and Statistics (MAN: 006)

Random Experiment: An experiment is called a random experiment if

- (1) All possible outcomes of the experiment are known in advance.
- (11) The specific outcome of the experiment is not Known in advance.
- (III) The experiment can be repeated under édentical conditions.

The set of all possible outcomes of a random experiment is called the sample space.

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A point of the sample space is called a sample point.

If on performing an experiment the outcome is an event A, then we say that event A has occurred.

Two events A, B are said to be mutually exclusive if ANB = ϕ , i.e. they cannot occur to gether.

Events A_{1}, A_{2}, \cdots in a sample space S are called exhaustive if $UA^{\circ} = S$.