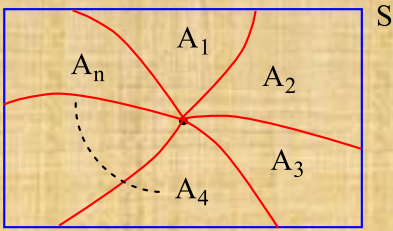


Chapter 13

PROBABILITY

Partition of a sample space:

A set of events $A_1, A_2, \dots, A_n$ is said to represent a partition of the sample space S . If



a) $A_i \cap A_j = \phi, i \neq j, i, j = 1, 2, 3, \dots, n$

b) $A_1 \cup A_2 \cup \dots \cup A_n = S$

c) $P(A_i) > 0$ for all $i = 1, 2, \dots, n$.