Study Notes

$\begin{array}{c} An\ Introduction\ of\ Probability\ Theory\ and\ Its \\ Applications \end{array}$

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1 The Sample Space

1.1 The Empirical Background

Events Events are the results of experiments or obervations. The events should be distinguished between compound(decomposable) and simple(indecomposable) events. A compound event is an aggregate of certain simple events.

Sample points Sample points are just the simple events. Every indecomposable result of the (idealized) experiment is represented by one, and only one, sample point.

Sample Space Sample space is the aggregate of all sample points.

Notes

1. It seems that all the sampling problems can be abstract into placing r balls into n cells. Read in depth! (P10-11)