(1) Probability space.
(2) Conditional probability, independent events, Bayes’s theorem, complete probabilities.
(3) Random discrete variable, discrete distributions: uniform, binomial, geometric, hypergeometric, negative binomial, Poisson.
(4) Random continuous variable, continuous distributions: uniform, exponential, normal.
(5) Random discrete two dimensional variable, independence of variables.
(6) Mean, variance, correlation coefficient.
(7) Chebyshev inequality, large numbers law.
(8) Central Limit Theorem, normal approximation.