

CHAPTER OVERVIEW

6: Continuous Random Variables and the Normal Distribution

Continuous random variables have many applications. Baseball batting averages, IQ scores, the length of time a long distance telephone call lasts, the amount of money a person carries, the length of time a computer chip lasts, and SAT scores are just a few. The field of reliability depends on a variety of continuous random variables.

6.0: Introduction

6.0.1: Continuous Probability Functions

6.0.2: The Uniform Distribution

6.1: The Normal Distribution

6.1.1: The Standard Normal Distribution

6.2: Applications of the Normal Distribution

6.3: The Central Limit Theorem

6.4: Normal Approximation to the Binomial Distribution

6.E: The Normal Distribution (Optional Exercises)

6.E: The Central Limit Theorem for Sample Means (Optional Exercises)

6.E: The Standard Normal Distribution (Optional Exercises)

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