

Experimentation

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Introductory Statistics for Engineering Experimentation

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The Accreditation Board for Engineering and Technology (ABET) introduced a criterion starting with their 1992-1993 site visits that "Students must demonstrate a knowledge of the application of statistics to engineering problems." Since most engineering curricula are filled with requirements in their own discipline, they generally do not have time for a traditional two semesters of probability and statistics. Attempts to condense that material into a single semester often results in so much time being spent on probability that the statistics useful for designing and analyzing engineering/scientific experiments is never covered. In developing a one-semester course whose purpose was to introduce engineering/scientific students to the most useful statistical methods, this book was created to satisfy those needs.

- Provides the statistical design and analysis of engineering experiments & problems
- Presents a student-friendly approach through providing statistical models for advanced learning techniques
- Covers essential and useful statistical methods used by engineers and scientists



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