List of Changes

Essentials of Business Statistics, 2nd edition

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New in the 2nd edition:

Focus on the p-Value Approach. Due to students often getting confused with the mechanics of implementing a hypothesis test using both the p-value approach and the critical value approach, this edition focuses primarily on the p-value approach, with the critical value approach still covered in Chapter 9. This focus is supported by recommendations set forth by the Guidelines for Assessment and Instruction in Statistics Education (GAISE) College Report 2016 published by the American Statistical Association. The GAISE Report recommends that students should be able to interpret and draw conclusions from standard output from statistical software (page 11) and that instructors should consider shifting away from the use of tables (page 23).

Streamlined Excel instructions. This modification provides a more seamless reinforcement for the relevant topic. These sections can be easily skipped for those instructors who prefer to use a different software.

More Regression Analysis in Chapter 13. Chapter 13 has been revised to accommodate the importance of regression analysis in applied work. The chapter now contains the following sections: Dummy Variables, Interaction with Dummy Variables, Nonlinear Relationships, Trend Forecasting Models, and Forecasting with Trend and Seasonality.

Instructions for R included along with MiniTab, SPSS, and JMP instructions that appear in chapter appendices. R is an easy-to-use and wildly popular software that merges the convenience of statistical packages with the power of coding.

Ever Connect exercise has been reviewed. Jaggia and Kelly both use Connect in their classes and have attempted to make the technology component seamless with the text itself. In addition to reviewing every Connect exercise, more conceptual exercises, evaluated rounding rules, and revised tolerance levels have been added.

Other Noteworthy Changes

- Learning Outcomes have been streamlined or re-written for the sake of simplicity and consistency.
- **Chapter 1 (Statistics and Data)** introduces structured data, unstructured data, and big data, as well as a revised section on online data sources.
- **Chapter 4 (Introduction to Probability)** examines marijuana legalization in the United States in the Writing with Statistics example.
- **Chapter 6 (Continuous Probability Distributions)** covers the normal distribution in one section, rather than two sections.
- **Chapter 7 (Sampling and Sampling Distributions)** added a discussion of the Trump election coupled with social-desirability bias.
- The section **"Model Assumptions and Common Violations"** has been moved from Chapter 13 (More on Regression Analysis) to Chapter 12 (Basics of Regression Analysis).