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Mathematical Statistics With Applications

WACKERLY • MENDENHALL • SCHEAFFER

Mathematical Statistics
with Applications

7th Edition

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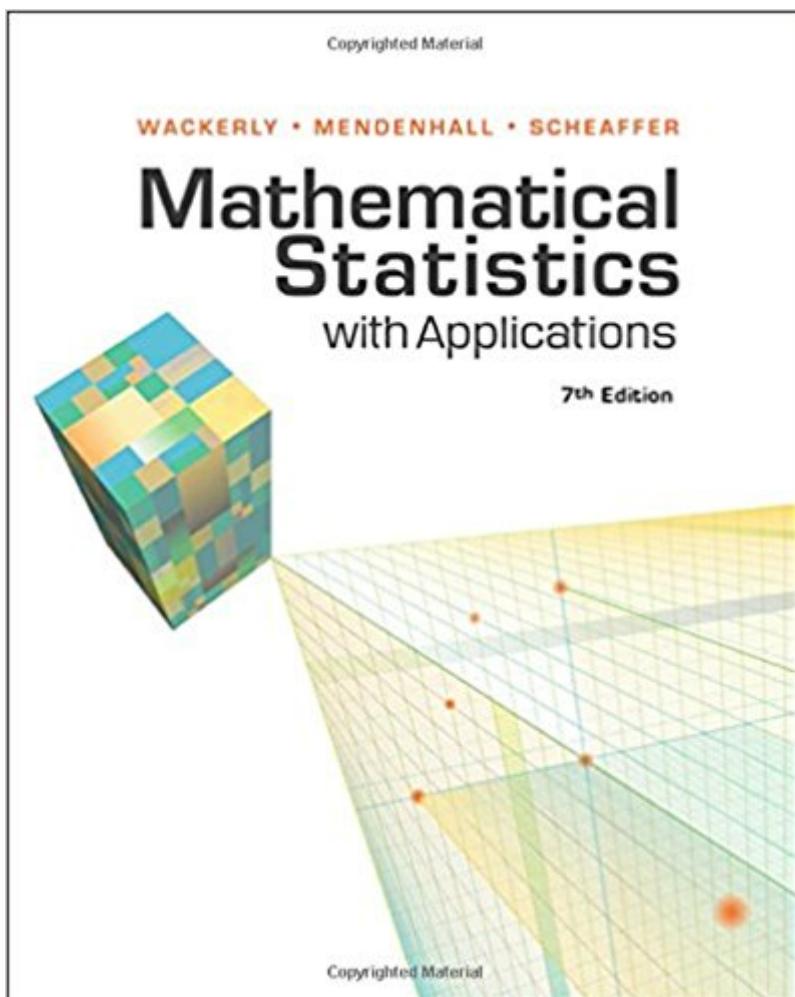
Synopsis

In their bestselling MATHEMATICAL STATISTICS WITH APPLICATIONS, premiere authors Dennis Wackerly, William Mendenhall, and Richard L. Scheaffer present a solid foundation in statistical theory while conveying the relevance and importance of the theory in solving practical problems in the real world. The authors' use of practical applications and excellent exercises helps you discover the nature of statistics and understand its essential role in scientific research.

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Customer Reviews

Deciding it was time to finally learn statistics, I enrolled in 2, quarter-long Mathematical Statistics courses at the university where I was a chemistry professor. The courses covered probability, the standard group of continuous and discrete distributions, confidence intervals, hypothesis testing, linear models, ANOVA, categorical data, and non-parametric statistics, and both courses used the Wackerly, et. al. text.I believe that this book is designed to teach statistics to those who plan on actually using it professionally (and not just to pass a required course) while continuing to develop one's own mathematical maturity. While Wackerly is not as rigorous as Ross's Probability book, it is taught at a completely different level than a non-calculus-based statistics course that are often taken by students who simply want to know which formula to use for the exam. I think of it as the ideal text for anyone in the sciences, engineering, or economics. The level of rigor is similar to the 2 Calculus courses online at MIT-Open Course Ware.I found the book to be extremely well-written, while keeping each section fairly short, as the range of topics is fairly complete for a "classical" text--40% greater than what we covered in 2 quarters. There are lots of practical plug-and-chug problems from

the sciences / engineering / economics that are good at teaching you when exactly you should use one formula versus another.Simultaneously, this book derives virtually every formula, allowing students to continue to develop their mathematical maturity which will be required for higher-level courses on bootstrapping, pattern recognition, statistical learning, etc.

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