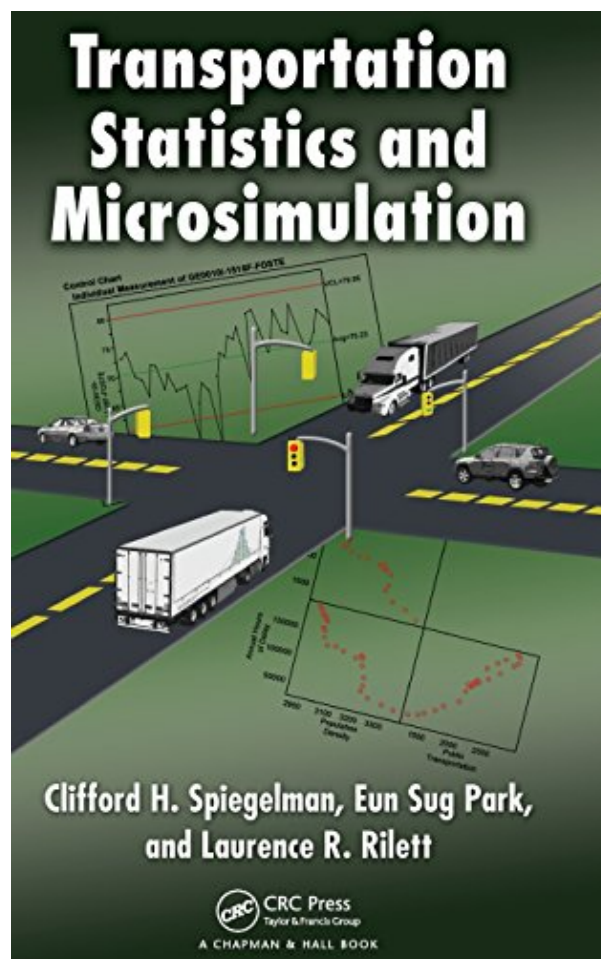


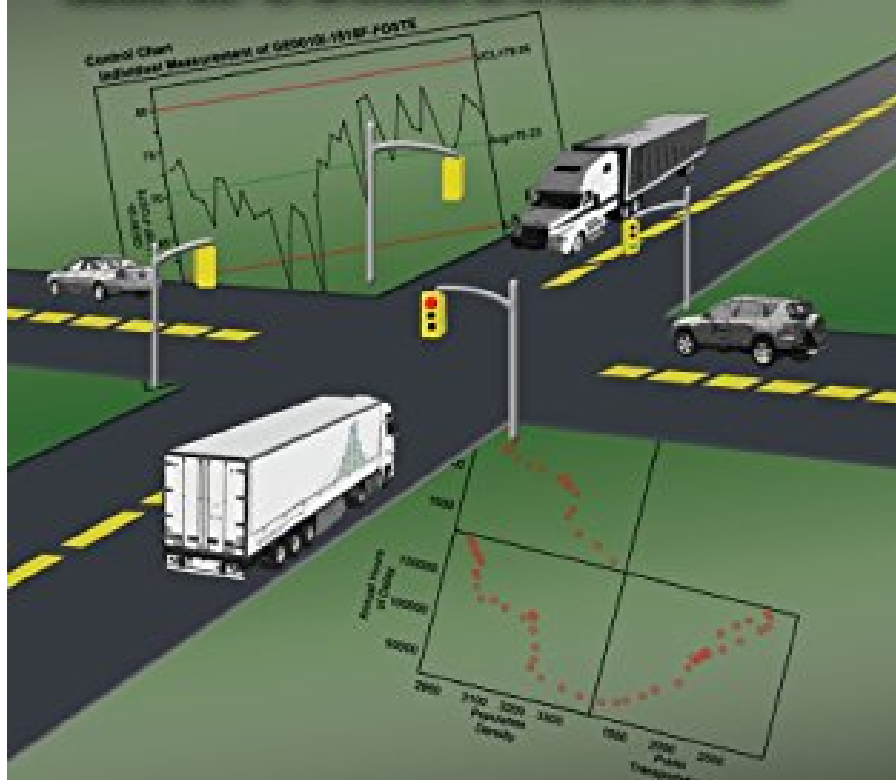
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In this treatment of statistics specifically directed to transportation planners and engineers, Spiegelman and other transportation experts discuss the basics of statistical and graphical methods, differences between methodologies, strategies for conducting computer-aided statistical designs (using JMP software by SAS), bias-corrected confidence intervals, re-sampling techniques for evaluating uncertainties, and the concepts of Bayesian estimation and smoothing estimators. They also overview increasingly used traffic microsimulation models. The text includes homework problems, appended information on soft modeling and nonparametric model building, and a companion website for access to data sets.

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About the Author

Clifford Spiegelman is a distinguished professor of statistics at Texas A&M University, where he has been for twenty-three years. Dr. Spiegelman is also a senior research scientist at the Texas Transportation Institute.

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By discussing statistical concepts in the context of transportation planning and operations, Transportation Statistics and Microsimulation provides the necessary background for making informed transportation-related decisions. It explains the why behind standard methods and uses real-world transportation examples and problems to illustrate key concepts.

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Classroom-tested at Texas A&M University, the text covers the statistical techniques most frequently employed by transportation and pavement professionals. To familiarize readers with the underlying theory and equations, it contains problems that can be solved using statistical software. The authors encourage the use of SAS's JMP package, which enables users to interactively explore and visualize data. Students can buy their own copy of JMP at a reduced price via a postcard in the book.

Practical Examples Show How the Methods Are Used in Action

Drawing on the authors' extensive application of statistical techniques in transportation research and teaching, this textbook explicitly defines the underlying assumptions of the techniques and shows how they are used in practice. It presents terms from both a statistical and a transportation perspective, making conversations between transportation professionals and statisticians smoother and more productive.

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A nice statistics review and reference for traffic engineers

By Engineering

I've read most part of the book. The first twelve chapters reviews fundamental knowledge of probability and statistics, and the most frequently used techniques. One feature that I like most is the involvement of traffic data. As a traffic engineer, I found it indeed pleasant to have found in a statistics book lots of examples from my practising field. Chapter 13 to Chapter 15 are unique of this book: Chapter 13 introduces three modern techniques for estimation of uncertainties. Chapter 14, which was my favorite among all the chapters, introduces general concepts of Bayesian methods and feeds with nice examples -- again, making a lot of sense to traffic professionals. Chapter 15, provides an introduction to traffic microsimulation, and how concepts and techniques discussed in previous chapters can be utilized in traffic microsimulation studies.

I recommend this book to any transportation engineer who wants to review their statistics (must have taken courses in probability and statistics) and/or wants to add a nice reference book to his/her own library to check for important fundamental statistical concepts and techniques when needed.

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