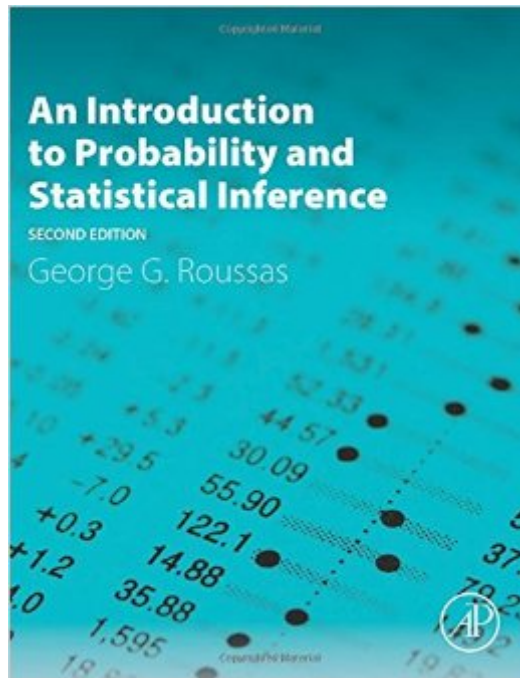# An Introduction To Probability And Statistical Inference, Second Edition

Synopsis

Probability models, statistical methods, and the information to be gained from them is vital for work in business, engineering, sciences (including social and behavioral), and other fields. Data must be properly collected, analyzed and interpreted in order for the results to be used with confidence.Award-winning author George Roussas introduces readers with no prior knowledge in probability or statistics to a thinking process to guide them toward the best solution to a posed question or situation. An Introduction to Probability and Statistical Inference provides a plethora of examples for each topic discussed, giving the reader more experience in applying statistical methods to different situations.Content, examples, an enhanced number of exercises, and graphical illustrations where appropriate to motivate the reader and demonstrate the applicability of probability and statistical inference in a great variety of human activitiesReorganized material in the statistical portion of the book to ensure continuity and enhance understandingA relatively rigorous, yet accessible and always within the prescribed prerequisites, mathematical discussion of probability theory and statistical inference important to students in a broad variety of disciplinesRelevant proofs where appropriate in each section, followed by exercises with useful clues to their solutionsBrief answers to even-numbered exercises at the back of the book and detailed solutions to all exercises available to instructors in an Answers Manual

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