

ZMATH 2007f.00400

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Stats. Modeling the world. 2nd ed.

London: Pearson/Addison-Wesley (ISBN 0-13-187621-X/hbk). xxv, 680 p. (2007).

Summary: By leading with practical data analysis and graphics, this textbook wants to get students “doing statistics” and “thinking statistically” from the start. Students are led to understand what can be found in data, why it is interesting, and how it can be reported it to others as a sound foundation for the challenges of inference. The authors put emphasis on modeling and applications, a more than five page index leads to applications of statistics in many subjects, such as agriculture, economics, science; environment; entertainment, games, and many more. The 29 chapters of the book are arranged under the following headers: Exploring and understanding data, Exploring relationships between variables, Gathering data, Randomness and probability, From the data at hand to the world at large, Learning about the world, Inference when variables are related. Every chapter of this Second Edition features new exercises graded by level of difficulty, Just Checking questions that check students’ understanding of key concepts, and What Have We Learned? sections that summarize the main topics covered in each chapter.

Classification: K15 K14 M15 M14

Keywords: statistics; stochastics; textbooks; mathematical applications; application-oriented teaching