

**ZMATH 2003d.03468**

**Watkins, Ann E.; Scheaffer, Richard L.; Cobb, George W.**

**Statistics in action. Understanding a world of data.**

Key Curriculum Press, Berkeley, CA (ISBN 1-55953-313-7). 760 p. (2004).

The book is designed for an introductory statistics course - either an introductory college course or its high school equivalent, Advanced Placement Statistics - and includes all of the standard topics for that course. Beginning in Chapter 1 with a court case about age discrimination, students will be immersed in real problems that can be solved only with statistical methods. They will learn to: explore, summarize, and display data; design surveys and experiments; use probability to understand random behavior; make inferences about populations by looking at samples from those populations; make inferences about the effect of treatments from designed experiments. Contents: A case study of statistics in action; Exploring distributions; Relationships between two quantitative variables; Sample surveys and experiments; Sampling distributions; Probability models; Probability distributions; Inference for proportions, Inference for means; Chi-square tests; Inference for regression; Statistics in action - case studies.

*Classification:* K10 U20