ZMATH 2015f.00886

Kinney, John J.

Probability. An introduction with statistical applications. 2nd ed.

Hoboken, NJ: John Wiley & Sons (ISBN 978-1-118-94708-1/hbk; 978-1-118-94709-8/ebook). xv, 464 p. (2015).

The book covers the usual topics on introductory probability. What mainly distinguishes this text from the other competitors is that it makes use of tools like recursion, probability and mean generating functions to a much larger extent in order to solve problems, especially on discrete probability. Such tools can be more extensively exploited nowadays due to powerful computational resources and smart computer algebra systems. A variety of problems appearing in a broad range of scientific areas are discussed and solved throughout the text. Some topics in statistics are presented as applications of probability. However, we must object to the one referred to as jackknife regression, since it misses the point of what the objective of regression is. Several typos occur throughout the text which, hopefully, will be corrected in a new edition of the book. *Nelson I. Tanaka (São Paulo)*

Classification: K55 K65 K45 K75 K85 K95
Keywords: recursion; probability generating function; mean generating function; computer algebra systems; hypotheses testing; confidence interval; quality control