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**An introduction to probability and statistics. 3rd edition.**

Wiley Series in Probability and Mathematical Statistics. Hoboken, NJ: John Wiley & Sons (ISBN 978-1-118-79964-2/hbk; 978-1-118-79965-9/ebook). 728 p. (2015).

Publisher's description: Featuring updated material, the book remains a solid overview to probability theory and mathematical statistics. Divided into three parts, the third edition begins by presenting the fundamentals and foundations of probability. The second part addresses statistical inference, and the remaining chapters focus on special topics. The book includes: indent=5mm

- a new section on regression analysis to include multiple regression, logistic regression, and Poisson regression,
- a reorganized chapter on large sample theory to emphasize the growing role of asymptotic statistics,
- additional topical coverage on bootstrapping, estimation procedures, and resampling,
- discussions on invariance, ancillary statistics, conjugate prior distributions, and invariant confidence intervals,
- over 550 problems and answers to most problems, as well as 350 worked out examples and 200 remarks,
- numerous figures to further illustrate examples and proofs throughout. The book is an ideal reference and resource for scientists and engineers in the fields of statistics, mathematics, physics, industrial management, and engineering. The book is also an excellent text for upper-undergraduate and graduate-level students majoring in probability and statistics. See the reviews of the previous editions in [Zbl 0354.62001; Zbl 0969.62002].

*Classification:* K15

*Keywords:* variance analysis;  $U$ -statistics; robustness of tests; probability axioms; limit theorems; distributions