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**Baglivo, Jenny A.**

**Mathematical laboratories for mathematical statistics. Emphasizing simulation and computer intensive methods. With CD-ROM.** (English)

ASA-SIAM Series on Statistics and Applied Probability 14. Philadelphia, PA: Society for Industrial and Applied Mathematics (SIAM). Alexandria, VA: American Statistical Association (ASA). xx, 260 p. \$ 70.00 (2005). ISBN 0-89871-566-0/pbk; ISBN 978-0-89871-841-6/ebook

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The book is a concise introduction to the concepts of probability theory and mathematical statistics. In its fifteen chapters, it includes basic probability concepts, an introduction to mathematical statistics, permutation and bootstrap methods, multiple sample analysis, linear least squares method, and analysis of contingency tables. The accompanying electronic material of the book is a series of in-class and take-home computer laboratory problems designed to reinforce the concepts and apply the techniques in real and realistic settings. These laboratory materials use the Mathematica software and are designed even for students with little or no experience in Mathematica.

The book introduces an approach to incorporate technology in the mathematical statistics sequence with an emphasis on simulation and computer intensive methods. As such it is well suited not only for teaching purposes but it may also be used profitably by statistical practitioners or consultants interested in a computer-based introduction to mathematical statistics, and especially to computer intensive methods.

*Christina Diakaki (Chania)*

*Classification :*

\*62-01 Textbooks (statistics)

65C60 Computational problems in statistics