



## Statistics and Chemometrics for Analytical Chemistry (6th Edition)

*By James Miller, Jane C Miller*

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**Statistics and Chemometrics for Analytical Chemistry (6th Edition)** By James Miller, Jane C Miller

This popular textbook gives a clear account of the principles of the main statistical methods used in modern analytical laboratories. Such methods underpin high quality analyses in areas such as the safety of food, water and medicines, environmental monitoring, and chemical manufacturing. The treatment throughout emphasises the underlying statistical ideas, and no detailed knowledge of mathematics is required. There are numerous worked examples, including the use of Microsoft Excel and Minitab, and a large number of student exercises, many of them based on examples from the analytical literature.

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## **Editorial Review**

### Review

"I have found much of interest and use in this book and will no doubt be referring back to it both for teaching (UG and PG) and research purposes." - *Frank J M Rutten, School of Pharmacy and EPSAM, Keele University, reviewed in 'Reviews'*

### From the Back Cover

This popular textbook gives a clear account of the principles of the main statistical methods used in modern analytical laboratories. Such methods underpin high quality analyses in areas such as the safety of food, water and medicines, environmental monitoring, and chemical manufacturing. The treatment throughout emphasises the underlying statistical ideas, and no detailed knowledge of mathematics is required. There are numerous worked examples, including the use of Microsoft Excel and Minitab, and a large number of student exercises, many of them based on examples from the analytical literature.

### **Features of the new edition**

- introduction to Bayesian methods
- additions to cover method validation and sampling uncertainty
- extended treatment of robust statistics
- new material on experimental design
- additions to sections on regression and calibration methods
- updated Instructors' manual
- improved website including further exercises for lecturers and students

This book is aimed at undergraduate and graduate courses in Analytical Chemistry and related topics. It will also be a valuable resource for researchers and chemists working in analytical chemistry.

**Professor James Miller** is Emeritus Professor of Analytical Chemistry at Loughborough University. He has published numerous reviews and papers on analytical techniques and been awarded the SAC Silver Medal, the Theophilus Redwood Lectureship and the SAC Gold Medal by the Royal Society of Chemistry. A Past President of the Analytical Division of the RSC, he is a former member of the Society's Council and has served on the editorial boards of many analytical and spectroscopic journals.

**Dr Jane Miller** completed a PhD at Cambridge University's Cavendish Laboratory and is an experienced teacher of mathematics and physics at higher education and 6th form levels. She holds an MSc in Applied Statistics and is the author of several specialist A-level statistics texts.

### About the Author

**Professor James Miller** is Emeritus Professor of Analytical Chemistry at Loughborough University. He has published numerous reviews and papers on analytical techniques and been awarded the SAC Silver Medal, the Theophilus Redwood Lectureship and the SAC Gold Medal by the Royal Society of Chemistry. A Past President of the Analytical Division of the RSC, he is a former member of the Society's Council and has served on the editorial boards of many analytical and spectroscopic journals.

**Dr Jane Miller** completed a PhD at Cambridge University's Cavendish Laboratory and is an experienced teacher of mathematics and physics at higher education and 6th form levels. She holds an MSc in Applied Statistics and is the author of several specialist A-level statistics texts.

## **Users Review**

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