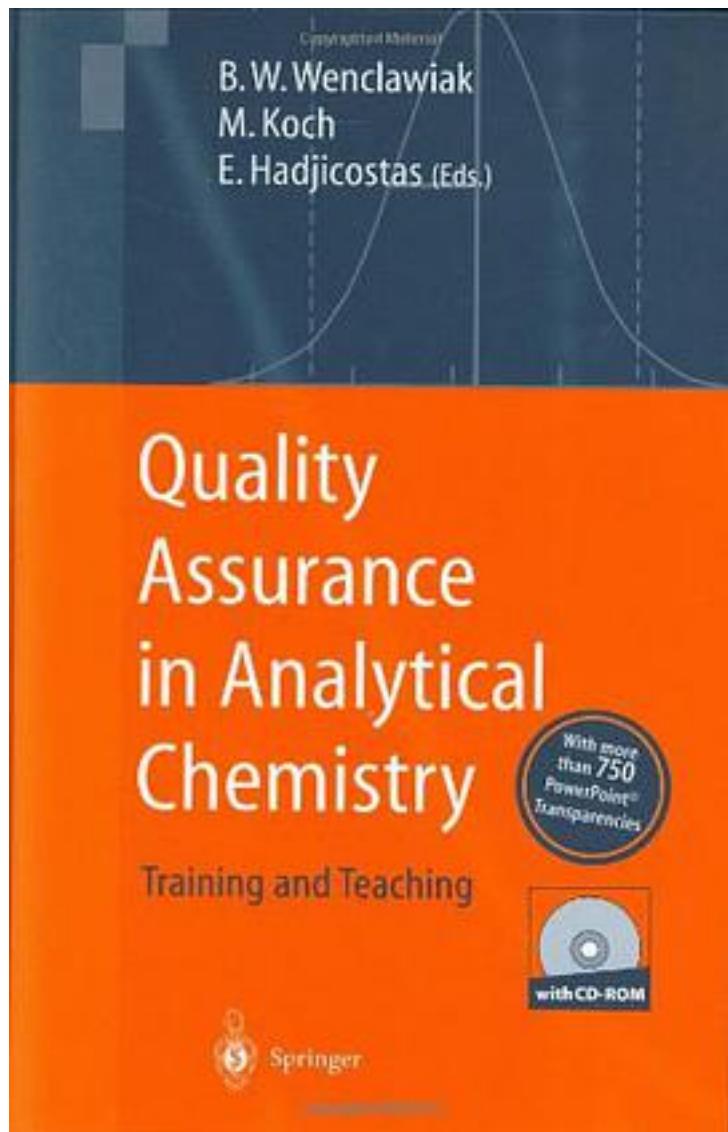


# Quality Assurance in Analytical Chemistry



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Quality assurance (QA) in chemical measurement is one of the major challenges in the work field of chemists. It is hard for the beginner to find information on all those topics related to QA. This book contains a compilation from different areas which deal with QA. Topics covered in this book include: Accreditation - ISO 17025, Certification - ISO 9000, Proficiency Testing, Basic Statistics, Measurement Uncertainty, Glossary / Institutions, Fit for the purpose (Philosophy), Quality Manual, Validation of Methods, Accreditation vs. Certification, GLP, Calibration - Detection Limit, Reference Materials, Control Charts, Metrology/Traceability, TQM and Cost of Quality. Standards such as ISO 17025, accreditation, measurement uncertainty amongst many others are topics which are often not covered in university classes. Especially first time employees or those switching to the field of analytical chemistry measurements are stressed by many special terms and requirements, they have not heard of before. Sometimes it might be necessary to introduce other newcomers to the field with some startup information. It is the aim of this book to give a help to get started. It provides basic information in all fields that are of interest for quality assurance in chemical measurement regarding management requirements as well as technical requirements. It is also very valuable for all those leaving the university, before they seek their first employment and to get ready for the job interview. Electronic reading is supported by a CD which accompanies the book. Material provided thereon can be used as memory card or as ready to use transparencies for teaching purposes in educational institutions and for in-house training of the laboratory staff. Specialists from different fields have contributed to this book sharing their expertise with the reader to get started in QA.

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目录:

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