



Analytical Chemistry for Technicians, Second Edition

By John Kenkel



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The second edition of Analytical Chemistry for Technicians provides the "nuts and bolts" of analytical chemistry and focuses on the practical aspects for training a technician-level laboratory worker. This edition presents new and expanded chapters, innumerable questions and problems, and modified experiments that present a fresh and challenging approach. Some of the topics that have been expanded include chemical equilibrium, chromatography, Kjeldahl method, and molarity and moles where EDTA and water hardness calculations are concerned. New discussions of the Ag/AgCl and combination pH electrodes have been added, while the discussion of ion-selective electrodes has been expanded. The chapter introducing instrumental analysis and computers now includes discussions of "y = mx + b" and the method of least squares. The book also includes discussions of FTIR, topics of NMR, and mass spectrometry, which are found in the new infrared spectrometry chapter.



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Editorial Review

Review

. . . this book can be a valuable resource for any chemistry student and indeed, for practitioners, laboratory scientists, teachers, and professors-anyone who needs to know something about how laboratory analyses are carried out...Numerous experiments and questions at the end of the chapter illustrate concepts and manipulations taught in that chapter. The accompanying CD-ROM illustrates many of the concepts presented in the book and is designed to reinforce what has been learned. Summing up: Highly Recommended
-J.A. Siegel, Michigan State University

[The book has] comprehensive coverage of the analytical techniques students will most likely encounter when entering an industrial position. . . [Charts] . . . provide a quick and useful summary of key ideas.
- Journal of Chemical Education, Vol. 82, No. 1, January 2005

It is useful and informative....It is a very good source for many standard chemical test methods not commonly presented in the analytical curriculum.
-Physical Sciences Educational Reviews, Vol. 7

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