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Applications Of Microsoft Excel In Analytical Chemistry

Applications of Microsoft® Excel in Analytical Chemistry

Second Edition

Stanley R. Crouch ■ F. James Holler
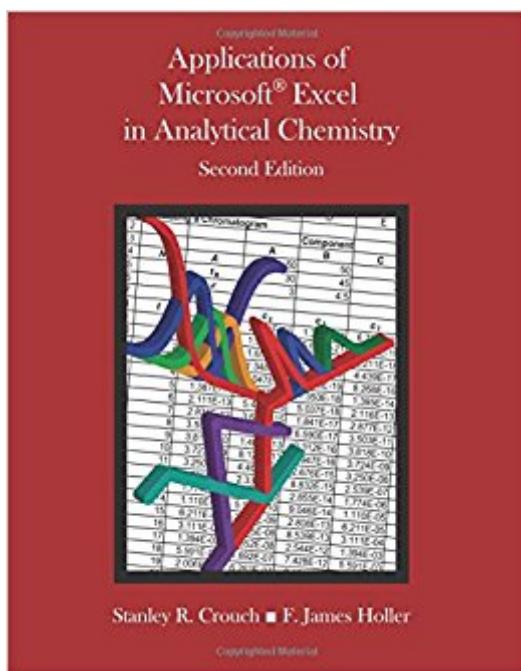
Synopsis

This supplement can be used in any analytical chemistry course. The exercises teach students how to use Microsoft Excel using applications from statistics, data analysis equilibrium calculations, curve fitting, and more. Operations include everything from basic arithmetic and cell formatting to Solver, Goal Seek, and the Data Analysis Toolpak. The authors show students how to use a spreadsheet to construct log diagrams and to plot the results. Statistical data treatment includes descriptive statistics, linear regression, hypothesis testing, and analysis of variance. Tutorial exercises include nonlinear regression such as fitting the Van Deemter equation, fitting kinetics data, determining error coefficients in spectrophotometry, and calculating titration curves. Additional features include solving complex systems of equilibrium equations and advanced graphical methods: error bars, charts with insets, matrices and determinants, and much more.

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F. James Holler is professor emeritus of chemistry and recipient of the Alumni Association Great Teacher Award at the University of Kentucky. He received his Ph.D. from Michigan State University. In addition to his role as co-author of several bestselling texts, he is co-creator of the world-famous Periodic Table of Comic Books.Stanley R. Crouch is professor emeritus at Michigan State University. He received his undergraduate and M.S. degrees from Stanford University and his Ph.D. in analytical chemistry from the University of Illinois. He is the recipient of the 2001 American Chemical Society Division of Analytical Chemistry Award in Chemical Instrumentation and the 1996 ACS Division of Analytical Chemistry Award for Excellence in Teaching.

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