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Applications of Microsoft Excel in Analytical Chemistry

By F Holler, Stanley Crouch

Cengage Learning, Inc, United States, 2013. Paperback. Book Condition: New. 2nd International edition. 272 x 214 mm. Language: English . Brand New Book. This supplement can be used in any analytical chemistry course. The exercises teaches you how to use Microsoft(R) Excel(R) 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 you 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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