

Applications of Microsoft® Excel in Analytical Chemistry

Second Edition



Stanley R. Crouch ■ F. James Holler

Applications Of Microsoft Excel In Analytical Chemistry

Henry Freiser, Monika Freiser



Applications Of Microsoft Excel In Analytical Chemistry:

Applications of Microsoft Excel in Analytical Chemistry F. James Holler, Stanley R. Crouch, 2013-02-27 This supplement can be used in any analytical chemistry course The exercises teaches you 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 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 Important Notice Media content referenced within the product description or the product text may not be available in the ebook version *Applications of Microsoft Excel in Analytical Chemistry* , **Applications of Microsoft Excel in Analytical Chemistry** Douglas A. Skoog, Donald M. West, F. James Holler, Stanley R. Crouch, 2021-03 Spreadsheet Applications in Chemistry Using Microsoft Excel Aoife Morrin, Dermot Diamond, 2022-09-14 SPREADSHEET APPLICATIONS IN CHEMISTRY USING MICROSOFT EXCEL Find step by step tutorials on scientific data processing in the latest versions of Microsoft Excel The Second Edition of Spreadsheet Applications in Chemistry Using Microsoft Excel delivers a comprehensive and up to date exploration of the application of scientific data processing in Microsoft Excel Written to incorporate the latest updates and changes found in Excel 2021 as well as later versions this practical textbook is tutorial focused and offers simple step by step instructions for scientific data processing tasks commonly used by undergraduate students Readers will also benefit from an online repository of experimental datasets that can be used to work through the tutorials to gain familiarity with data processing and visualization in Excel This latest edition incorporates new and revised content to use to learn the basics of Excel for scientific data processing and now includes statistical analysis and regression analysis using Excel add ins accounts for differences in navigation and utility between Windows and MacOS versions of the software and integrates with an online dataset repository for the tutorial exercises Spreadsheet Applications in Chemistry Using Microsoft Excel also includes A thorough introduction to Microsoft Excel workbook and worksheet basics including Excel toolbar navigation entering and manipulating formulas and functions and charting experimental chemical data Comprehensive explorations of statistical functions and regression analysis Generating calibration plots from instrumental data Visualizing concepts in physical chemistry Perfect for undergraduate and graduate students of analytical and physical chemistry Spreadsheet Applications in Chemistry Using Microsoft Excel is also an ideal resource for students and practitioners of physics engineering and biology **How to Use Excel® in Analytical Chemistry** Robert de Levie, 2001-02-05 Because of their intuitive layout extensive mathematical

capabilities and convenient graphics spreadsheets provide an easy straightforward route to scientific computing This textbook for undergraduate and entry level graduate chemistry and chemical engineering students uses Excel the most powerful available spreadsheet to explore and solve problems in general and chemical data analysis This is the only up to date text on the use of spreadsheets in chemistry The book discusses topics including statistics chemical equilibria pH calculations titrations and instrumental methods such as chromatography spectrometry and electroanalysis It contains many examples of data analysis and uses spreadsheets for numerical simulations and testing analytical procedures It also treats modern data analysis methods such as linear and non linear least squares in great detail as well as methods based on Fourier transformation The book shows how matrix methods can be powerful tools in data analysis and how easily these are implemented on a spreadsheet and describes in detail how to simulate chemical kinetics on a spreadsheet It also introduces the reader to the use of VBA the macro language of Microsoft Office which lets the user import higher level computer programs into the spreadsheet

Undergraduate Instrumental Analysis, Sixth Edition James W. Robinson, Eileen M. Skelly Frame, George M. Frame II, 2004-12-02 Completely rewritten revised and updated this Sixth Edition reflects the latest technologies and applications in spectroscopy mass spectrometry and chromatography It illustrates practices and methods specific to each major chemical analytical technique while showcasing innovations and trends currently impacting the field Many of the chapters have been individually reviewed by teaching professors and include descriptions of the fundamental principles underlying each technique demonstrations of the instrumentation and new problem sets and suggested experiments appropriate to the topic About the authors JAMES W ROBINSON is Professor Emeritus of Chemistry Louisiana State University Baton Rouge A Fellow of the Royal Chemical Society he is the author of over 200 professional papers and book chapters and several books including Atomic Absorption Spectroscopy and Atomic Spectroscopy He was Executive Editor of Spectroscopy Letters and the Journal of Environmental Science and Health both titles Marcel Dekker Inc and the Handbook of Spectroscopy and the Practical Handbook of Spectroscopy both titles CRC Press He received the B Sc 1949 Ph D 1952 and D Sc 1978 degrees from the University of Birmingham England EILEEN M SKELLY FRAME recently was Clinical Assistant Professor and Visiting Research Professor Rensselaer Polytechnic Institute Troy New York Dr Skelly Frame has extensive practical experience in the use of instrumental analysis to characterize a wide variety of substances from biological samples and cosmetics to high temperature superconductors polymers metals and alloys Her industrial career includes supervisory roles at GE Corporate Research and Development Stauffer Chemical Corporate R D and the Research Triangle Institute She is a member of the American Chemical Society the Society for Applied Spectroscopy and the American Society for Testing and Materials Dr Skelly Frame received the B S degree in chemistry from Drexel University Philadelphia Pennsylvania and the Ph D in analytical chemistry from Louisiana State University Baton Rouge GEORGE M FRAME II is Scientific Director Chemical Biomonitoring Section of the Wadsworth Laboratory New York State Department of Health

Albany He has a wide range of experience in the field and has worked at the GE Corporate R D Center Pfizer Central Research the U S Coast Guard R D Center the Maine Medical Center and the USAF Biomedical Sciences Corps He is an American Chemical Society member Dr Frame received the B A degree in chemistry from Harvard College Cambridge Massachusetts and the Ph D degree in analytical chemistry from Rutgers University New Brunswick New Jersey

Undergraduate Instrumental Analysis Thomas J. Bruno, James W. Robinson, George M. Frame II, Eileen M. Skelly
Frame, 2023-07-31 Analytical instrumentation is crucial to research in molecular biology medicine geology food science materials science forensics and many other fields Undergraduate Instrumental Analysis 8th Edition provides the reader with an understanding of all major instrumental analyses and is unique in that it starts with the fundamental principles and then develops the level of sophistication that is needed to make each method a workable tool for the student Each chapter includes a discussion of the fundamental principles underlying each technique detailed descriptions of the instrumentation and a large number of applications Each chapter includes an updated bibliography and problems and most chapters have suggested experiments appropriate to the technique This edition has been completely updated revised and expanded The order of presentation has been changed from the 7th edition in that after the introduction to spectroscopy UV Vis is discussed This order is more in keeping with the preference of most instructors Naturally once the fundamentals are introduced instructors are free to change the order of presentation Mathematics beyond algebra is kept to a minimum but for the interested student in this edition we provide an expanded discussion of measurement uncertainty that uses elementary calculus although a formula approach can be used with no loss of context Unique among all instrumental analysis texts we explicitly discuss safety up front in Chapter 2 The presentation intentionally avoids a finger wagging thou shalt not approach in favor of a how to discussion of good laboratory and industrial practice It is focused on hazards and remedies that might be encountered in the use of instrumentation Among the new topics introduced in this edition are Photoacoustic spectroscopy Cryogenic NMR probes and actively shielded magnets The nature of mixtures in the context of separations Troubleshooting and leaks in high vacuum systems such as mass spectrometers Instrumentation laboratory safety Standard reference materials and standard reference data In addition the authors have included many instrument manufacturer s websites which contain extensive resources We have also included many government websites and a discussion of resources available from National Measurement Laboratories in all industrialized countries Students are introduced to standard methods and protocols developed by regulatory agencies and consensus standards organizations in this context as well *Fundamentals of Analytical Chemistry* Douglas A. Skoog, 2004 This text is known for its readability combined with a systematic rigorous approach Extensive coverage of the principles and practices of quantitative chemistry ensures suitability for chemistry majors **Analytical Chemistry** Bryan M. Ham, Aihui Ma Ham, 2024-02-28 ANALYTICAL CHEMISTRY Detailed reference covering all aspects of working in laboratories including safety fundamentals of analytical techniques lab instrumentation and

more A comprehensive study of analytical chemistry as it pertains to the laboratory analyst and chemist Analytical Chemistry begins with an introduction to the laboratory environment including safety glassware common apparatuses and lab basics and continues on to guide readers through the fundamentals of analytical techniques such as spectroscopy and chromatography and introduce examples of laboratory programs such as Laboratory Information Management Systems LIMS This newly updated and revised Second Edition of Analytical Chemistry offers expanded chapters with new figures and the latest developments in the field Included alongside this new edition is an updated companion teaching reference and toolkit program called ChemTech Conveniently available via either app or browser the ChemTech program contains exercises that highlight and review topics covered in the book and features useful calculators and programs including solution makers graphing tools and more To aid in reader comprehension the program also includes an interactive periodic table and chapter summaries Written by two highly qualified authors with significant experience in both practice and academia Analytical Chemistry covers sample topics such as Basic mathematics in the laboratory including different units the metric system significant figures scientific calculators and ChemTech conversion tools Analytical data treatment including errors in the laboratory precision versus accuracy normal distribution curves and determining errors in methodology Plotting and graphing including graph construction curve fitting graphs of specific equations least squares method and computer generated curves Ultraviolet visible UV Vis spectroscopy including wave and particle theory of light light absorption transitions the color wheel and pigments With complete coverage of the practical aspects of analytical chemistry Analytical Chemistry prepares students for a rewarding career as a chemist or a laboratory technician Thanks to ChemTech integration the book is also a useful and accessible reference for the established chemist or technician already working in the laboratory

Undergraduate Instrumental Analysis James W. Robinson, Eileen Skelly Frame, George M. Frame II, 2014-07-21
Crucial to research in molecular biology medicine geology food science materials science and many other fields analytical instrumentation is used by many scientists and engineers who are not chemists Undergraduate Instrumental Analysis Seventh Edition provides users of analytical instrumentation with an understanding of these instruments c **Concepts and Calculations in Analytical Chemistry, Featuring the Use of Excel** Henry Freiser, 2017 Concepts Calculations in Analytical Chemistry A Spreadsheet Approach offers a novel approach to learning the fundamentals of chemical equilibria using the flexibility and power of a spreadsheet program Through a conceptual presentation of chemical principles this text will allow the reader to produce and digest large assemblies of numerical data calculations while still focusing on the chemistry The chapters are arranged in a logical sequence identifying almost every equilibrium scenario that an analytical chemist is likely to encounter The spreadsheet calculations and graphics offer an excellent solution to otherwise time consuming operations Worked examples are included throughout the book and student tested problems are featured at the end of each chapter Spreadsheet commands for QuattroPro Quattro and Lotus 1 2 3 are embedded in the text Concepts

Calculations in Analytical Chemistry A Spreadsheet Approach has been designed to serve both as a supplement to an undergraduate quantitative analysis course or as a text in a graduate level advanced analytical chemistry course Professional chemists will also find this to be an excellent introduction to spreadsheet applications in the lab and a modern overview of analytical chemistry in a self study format *Advanced Excel for Scientific Data Analysis* Robert De Levie,2004 This guide to Excel focuses on three areas least squares Fourier transformation and digital simulation It illustrates the techniques with detailed examples many drawn from the scientific literature It also includes and describes a number of sample macros and functions to facilitate common data analysis tasks De Levie is affiliated with Bowdoin College Annotation 2004 Book News Inc Portland OR booknews com *Exploring Chemical Analysis* Daniel C. Harris,2005 Exploring Chemical Analysis teaches students how to understand analytical results and how to use quantitative manipulations preparing them for the problems they will encounter Analytical Data Treatment Using Microsoft Excel Stauffer,2021-02-05 Statistics and Chemometrics for Analytical Chemistry James N. Miller,Jane Charlotte Miller,2000 This popular textbook gives a clear and lucid account of the underlying principles of statistical methods The fourth edition has been revised and updated to reflect the growing popularity of statistics and chemometric methods and new approaches in optimization and experimental design The authors have also addressed the quality of analytical chemistry data and experimental results an area of increasing concern to chemists testing the safety of food and medicines This book will suit undergraduate M Sc and graduate courses in Analytical Chemistry and related topics and will also be valuable for researchers and chemists working in analytical chemistry everywhere **Principles of Instrumental Analysis** Douglas A. Skoog,F. James Holler,Timothy A. Nieman,1998 Measurements basics Atomic spectroscopy Molecular spectroscopy Electroanalytical chemistry Separation methods Miscellaneous methods Concepts & Calculations in Analytical Chemistry, Second Edition, Featuring the Use of Excel Henry Freiser,Monika Freiser,2016-01-15 Using the flexibility and power of Excel this book offers a novel approach to learning the fundamentals of chemical equilibria The text allows readers to produce and digest large assemblies of numerical data calculations while still focusing on the chemistry It has been designed both as a supplement to an undergraduate quantitative analysis course or as a text in a graduate level advanced analytical chemistry course Professional chemists will also find this to be an excellent introduction to spreadsheet applications in the lab and a modern overview of analytical chemistry in a self study format The authors include problems at the end of each chapter *Concepts & Calculations in Analytical Chemistry, Featuring the Use of Excel* Henry Freiser,1992-03-17 Concepts Calculations in Analytical Chemistry A Spreadsheet Approach offers a novel approach to learning the fundamentals of chemical equilibria using the flexibility and power of a spreadsheet program Through a conceptual presentation of chemical principles this text will allow the reader to produce and digest large assemblies of numerical data calculations while still focusing on the chemistry Comprehensive Analytical Chemistry Cecil Leeburn Wilson,David Woodburn Wilson,2000 The British National Bibliography Arthur James

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