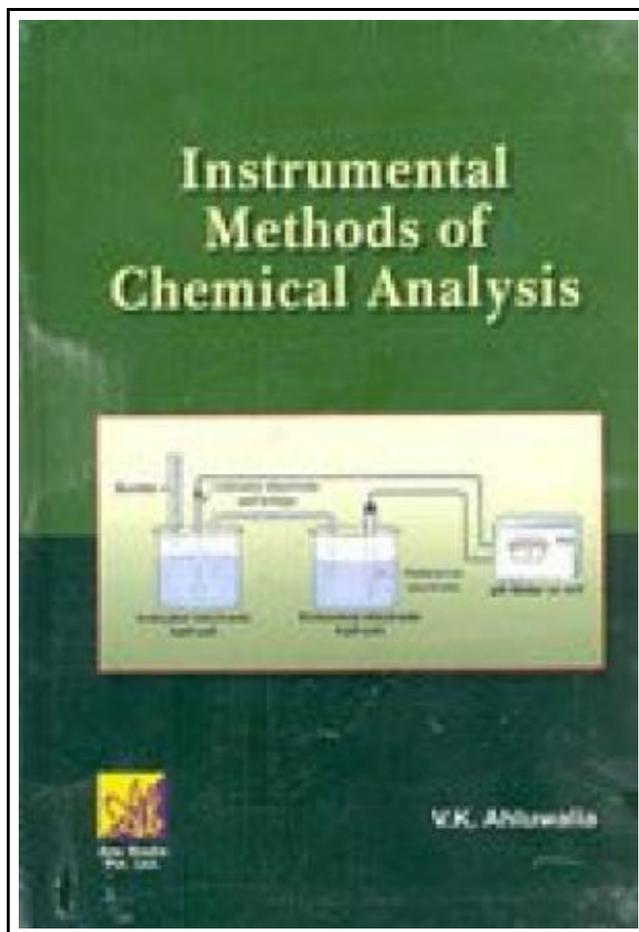


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INSTRUMENTAL METHODS OF CHEMICAL ANALYSIS



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Ane Books Pvt. Ltd., 2015. Hardcover. Book Condition: New. First edition. Before the invent of instruments, identification of compounds involved chemical methods for the determination of elements, functional group present and degradation of the compounds by chemical means. In addition to these, volumetric and gravimetric procedure were also used for various estimations. However, with the development of instrumental methods, chemical analysis has now been routinely used. These methods need only a few milligram of the compounds, which can also be recovered and used again in most of the instrumental methods. The book entitled ?Instrumental Methods of Chemical Analysis? is divided into seven parts. Part I deals with a brief introduction to instrumental methods of chemical analysis. Part II deals with chromatography which deals with methods of separation of a mixture of compounds into individual components and their structure determination. Various chromatographic methods include Paper chromatography, Thin layer chromatography, Gas chromatography, High performance liquid chromatography, Gas chromatography, Ion-exchange chromatography and Electro chromatography. Part III deals with thermal methods of chemical analysis. These include thermogravimetric analysis, Differential thermal analysis, Thermometric titrations and some miscellaneous thermal methods like derivative thermogravimetric analysis, thermobarography, differential scanning calorimetry, thermomechanical analysis and electric thermal analysis. Electrochemical methods are described in part IV. These include volumetric method of analysis, Polarography, Amperometric titrations, Potentiometric titrations, Conductometric titrations, spectrophotometric titrations, High frequency titrations, pH Measurements and Calorimetry. Part V of the book deals with instrumental methods for structure determination of organic compounds. These Include infrared spectroscopy, Ultraviolet spectroscopy, Nuclear Magnetic Resonance Spectroscopy, Electron Spin Resonance Spectroscopy, Mass Spectrometry, Polarimetry and Optical Rotatory Dispersion and Circular Dichroism. Instrumental methods of analysis of Inorganic compounds form the subject-matter of Part VI. Various methods include Microwave spectroscopy, Nuclear Quadrupole Resonance Spectroscopy, Raman spectroscopy, Mossbauer spectroscopy, Emission Spectrometry and Atomic Absorption Spectroscopy. Some of the methods...



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