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An Introduction to Instrumental Methods of Analysis Instrumental methods of chemical analysis have become the principal means of obtaining information in diverse areas of science and technology.

able instrumental methods (see Table 2). Alternatively, one might first try to classify the different types of instrumental methods and indicate next to them the types of physical evidence for which they might serve as useful analytical tools (see Table 3). Analytical Methods Most analytical methods having identification of a sub-

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sci/wcas/) and the designation of 'Science City' status to the Birmingham region (www.birminghamsciencecity.co.uk), there has been significant recent investment in people, state of the art equipment and instrumentation for analytical science at Warwick. The Masters Course in Analytical Science: Methods and Instrumental

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Analytical chemistry consists of classical, wet chemical methods and modern, instrumental methods. Classical qualitative methods use separations such as precipitation, extraction, and distillation. Identification may be based on differences in color, odor, melting point, boiling point, radioactivity or reactivity.

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chemistry in medicine, forensics and materials science will be presented. Course objectives: To reinforce chemical principles central to analytical chemistry. To introduce instrumental techniques for chemical measurement. To develop critical thinking for interpreting analytical data.

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Instrumental chemistry, or instrumental analysis, is a component of analytical chemistry. This field uses instruments to analyze particles and molecules. Part of analytical chemistry is exploring how these instruments work within the framework of research. Two common methods of instrumentation are spectroscopy and mass spectrometry.

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of the analytical studies had steadily been transferred to the instrumental techniques. Basically, chemical analysis can be divided into three broad categories as given below, which are almost invariably applied to major areas such as Fundamental Research, Product Development, Product Quality Control, Monitoring & Control of Pollutants, Medical &

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Classical methods The majority of the classical analytical methods rely on chemical reactions to perform an analysis. In contrast, instrumental methods typically depend on the measurement of a physical property of the analyte.

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Instrumental methods may be used to separate samples using chromatography, electrophoresis or field flow fractionation. Then qualitative and quantitative analysis can be performed, often with the same instrument and may use light interaction, heat interaction, electric fields or magnetic

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4. Most instrumental methods are multi-channel techniques (we will discuss these shortly). 5. Less skill and training is usually required to perform instrumental analysis than classical analysis. Because of these advantages, instrumental methods of analysis have revolutionized the field of analytical chemistry, as well as many other scientific ...

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