

Guide To Modern Methods Of Instrumental Analysis.pdf

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[An Introduction to Instrumental Methods of Analysis](#)

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1 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.

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D. Calibration of Instrumental Methods • Calibration: – Standards are used to verify the relationship between the analytical response (signal) and the analyte concentration. – Determines proper operation of the instrument. • Standardization: – Establishes the relationship between signal and analyte concentration.

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Instrumental methods Various instrumental methods are designed to perform: Primarily qualitative analysis – such as IR, NMR Primarily quantitative analysis – such as titration, UV/vis spectroscopy Both qualitative and quantitative – such as GC/MS 5 Energy source Analytical information Sample Stimulus Response 1.

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