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Optical methods of analysis, Daniele Naviglio « Analytical

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solved by powerful optical methods. This book presents a lucid, up-to-date discussion of these optical methods. Beginning from a firm base in modern optics, the book proceeds through relevant theory of interference and diffraction and integrates this theory with descriptions of laboratory techniques and apparatus.

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Optical methods for single molecule detection and analysis

The four main categories are potentiometry (the difference in electrode potentials is measured), coulometry (the transferred charge is measured over time) amperometry $P_{age 13/25}$

(the cell's current is measured over time), and voltammetry (the cell's current is measured while actively altering the cell's potential).

Analytical chemistry - Wikipedia

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absorption or emission of radiant energy, the bending of radiant energy, the scattering of radiant energy, and the delayed emission of radiant energy are typical optical properties which can be correlated to concentration.

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environments, that directly calculates chemical information from a spectrum as analogue output. Neutron spin echo spectroscopy measures internal dynamics in proteins and other soft matter systems.

Spectroscopy -Wikipedia

This Spotlight offers a perspective on the role of Monte Carlo simulation in the Page 21/25

analysis and tolerancing of optical systems. The book concisely explores two overarching questions: (1) What principles can we adopt from a variety of statistical methods - such as the analysis of variance (ANOVA), "root sum of squares" (RSS), and Monte Carlo simulation to analyze variability in complex optical ...

Monte Carlo Page 22/25

Simulation and Analysis in Modern Optical ...

Mathematical Methods of Engineering Analysis Erhan C_sinlar Robert J. Vanderbei February 2, 2000

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