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(Gas Chromatography-Mass Spectrometry) Analytical Techniques for Chemical Analysis & Testing ... The method usually relies on chemical reactions between the material being analyzed (the analyte) and a reagent that is added to the analyte. Wet techniques often depend on the formation of a product of the chemical reaction that is easily detected and measured. Chemical analysis | Britannica (A. METHODS FOR CHEMICAL ANALYSIS OF SOILS Bv L.C. BLAKEMORE] P.L. SEARLE] B.K. DALY Soil Bureau, Department of Scientific and Industrial Research, Lower Hutt N-EW ZEALAND SoIL BUREAU Sc1ENTIF1c REPORT IOA Department of Scientific and Industrial Research, New Zealand 1981 Bibliographic Reference: First printed

1972 Revised 1977 Revised 1981
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 chemical methods include oxidative
 processes using hydrogen peroxide, H₂
 O₂-Fe(II) salts (Fenton's reagent),
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direct aspiration atomic absorption spectroscopy a sample is aspirated and atomized in a flame A light beam from a hollow cathode lamp whose cathode is made of the element to be determined is directed through the flame into a monochromator, and onto a detector that measures the amount of light absorbed Absorption depends upon the presence of free unexcited ground state atoms in the flame Since the wavelength of the light beam is characteristic of only the metal being ...Methods for Chemical Analysis of Water and Wastes Chemical analysis - Chemical analysis - 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

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the numerical amount or concentration. Analytical chemistry consists of classical, wet chemical methods and modern, instrumental methods. Classical q

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4.1 These test methods for the chemical analysis of metals and alloys are primarily intended as referee methods to test such materials for compliance with composition specifications. It is assumed that all who use these methods will be trained analysts capable of performing common laboratory procedures skillfully and safely.

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Analysis of liquids / solutions for anions such as halides and sulphates. GC (Gas Chromatography) Major organic compound analysis as gases or volatile components. GC-MS (Gas Chromatography-Mass Spectrometry) Trace organic compound analysis as gases or volatile components. GC-MS (Gas Chromatography-Mass Spectrometry)

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The method usually relies on chemical reactions between the material being analyzed (the analyte) and a reagent that is added to the analyte. Wet techniques often depend on the formation of a product of the chemical reaction that is easily detected and measured.

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The chemical methods include oxidative processes using hydrogen peroxide, H₂O₂-Fe(II) salts (Fenton's reagent), ozonation, photochemistry, sodium hypochlorite, cucurbituril, and electrochemical destruction. Alum treatment is well suited for disperse, vat, and sulfur dyes, while activated carbon treatment is ideal for azoic, reactive, acid, and basic dyes.

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