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atomic absorption spectroscopy aas and atomic emission spectroscopy aes is a spectroanalytical procedure for the quantitative determination of chemical elements by free atoms in the gaseous state atomic absorption spectroscopy is based on absorption of light by free metallic ions aas systems and technologies atomic absorption spectrometry aas is an easy high throughput and inexpensive technology used primarily to analyze elements in solution as such aas is used in food and beverage water clinical research and pharmaceutical analysis it is also used in mining operations to determine for instance the atomic absorption spectrometry aas is a technique in which free gaseous atoms absorb electromagnetic radiation at a specific wavelength to produce a corresponding measurable signal the absorption signal is proportional to the concentration of the free atoms present in the optical path atomic emission spectroscopy measures the intensity of light emitted by the excited atoms while atomic absorption spectroscopy measures the light absorbed by atomic absorption this light is typically in the visible or ultraviolet region of the electromagnetic spectrum atomic absorption spectroscopy is ideally suited for the analysis of trace and ultratrace analytes particularly when using electrothermal atomization for minor and major analytes sample are diluted before the analysis most analyses use a macro or a meso sample an atomic absorption spectrometer uses these basic principles and applies them in practical quantitative analysis a typical atomic absorption spectrometer consists of four main components the light source the atomization system the monochromator and the detection system figure 1

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