

## Atomic And Molecular Photoabsorption Absolute Total Cross Sections

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Atomic and Molecular Photoabsorption, Volume 1 describes and catalogs available spectral information relevant to how common gases interact with sunlight and other sources of electromagnetic radiation such as x-rays, flames, and plasmas. Photoabsorption is light's reduction in intensity and force when it passes through a column of gas or liquid.

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Atomic and Molecular Photoabsorption: Partial Cross Sections is a companion work to Joseph Berkowitz's earlier work, Atomic and Molecular Photoabsorption: Absolute Total Cross Sections, published with Academic Press in 2002.. In this work Joseph Berkowitz selected the "best" absolute partial cross sections for the same species as included in the companion work.

~~Atomic and Molecular Photoabsorption: Absolute Partial ...~~

From the adiabatic ionization potential (AIP: H 2, 23.583; O 2, 12.070; NO, 9.2643) of diatomic molecules to the dissociative ionization threshold, the absolute partial cross-section is nearly the same as the absolute total ionization cross-section in the dissociative photoionization cross-sections. The decay mechanism of various absorption features has been studied by Auger electron spectroscopy, mass spectrometry and coincidence methods.

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~~Atomic and Molecular Photoabsorption - 1st Edition~~

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## ~~Atomic and Molecular Photoabsorption: Absolute Partial ...~~

The absolute values of photoionization cross-sections have been determined as  $(3.52 \pm 0.52)$  Mb,  $(2.21 \pm 0.33)$  Mb,  $(1.35 \pm 0.22)$  Mb and  $(0.54 \pm 0.08)$  Mb at four ionizing laser wavelengths; 1064 ...

## ~~Atomic and Molecular Photoabsorption: Absolute Partial ...~~

Absolute photoabsorption spectra have been recorded by Suto and Lee (1986) with a resolution of 0.015 eV and an estimated uncertainty in cross sections of  $\pm 10\%$ , and by Itoh et al. (1986) with a resolution of 0.035 eV and a statistical uncertainty in cross sections of 15%. More recently, Cooper et al. presented pseudo-photoabsorption cross sections obtained by inelastic electron scattering (e,e) with a resolution of 0.05 eV and an estimated uncertainty in cross sections of  $\pm 5\%$ .

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