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Atomic And Molecular Photoabsorption Absolute

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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.

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Atomic and Molecular Photoabsorption - 1st Edition

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Atomic and Molecular Photoabsorption: Absolute Total Cross Sections By Joseph Berkowitz (Argonne National Laboratory). Academic Press: San Diego, London. 2002. viii + 350 pp. \$99.95. ISBN 0-12 ...

Atomic and Molecular Photoabsorption: Absolute Total Cross ...

Absolute Photoabsorption Cross-Sections of Methanol for Terrestrial and Astrophysical Relevance. Emanuele Lange. Emanuele Lange. Atomic and Molecular Collisions Laboratory, CEFITEC, Department of Physics, Universidade NOVA de Lisboa, Caparica 2829-516, Portugal.

Absolute Photoabsorption Cross-Sections of Methanol for ...

Inner-shell photoabsorption of metals with nuclear charge $Z \geq 28$ is directly accessible to modern X-ray observatories, such as Chandra and XMM-Newton, and, hence, is of much interest in astronomy. Particularly prominent in the photoabsorption of the interstellar medium (ISM) are the K-shell features (lines and edges) of atomic oxygen, which ...

A COMPREHENSIVE X-RAY ABSORPTION MODEL FOR ATOMIC OXYGEN

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The absolute cross section for photoionization of atomic oxygen from the 2p⁴ 3P ground state of O(0) to the 2p³ 4S ground state of O(+) has been measured at five narrow wavelength intervals between 89.8 and 76.2 nm. The cross section near the 2p³ 4S threshold is 4.5 Mb + or - 7%.

Absolute cross section for photoionization of atomic ...

The experimental study of atomic chlorine absorption spectra by using a flash-pyrolysis system and a 2-m normal incidence spectrograph in the wavelength region 950 Å to 600 Å has produced wavelength measurements, line series identifications involving the 1 D and 1 S limits, and photoabsorption cross sections. The absorption spectra involve transitions from both levels (²P_{1/2} > ²P_{3/2}) ...

Absorption spectrum of atomic chlorine 950 Å to 600 Å ...

splitting of thresholds. Multiple scattering theory will be used with the atomic R-matrix information to treat photoabsorption in solid-state environments, and a consistent atomic, molecular, and solid-state absorption model will be developed. By determining atomic, molecular and solid state cross sections on the same footing, we will use

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