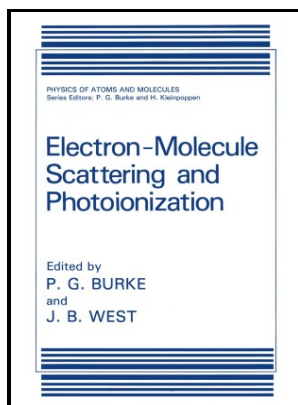


# Electron correlation in electron atom scattering and photoionization.

- - CiteSeerX — LETTER TO THE EDITOR Electron correlation effects in the double ionization of He



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-Electron correlation in electron atom scattering and photoionization.

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## Electron

In the case of ionization, these electron correlations affect the state and the dynamics of the residual cation on an atto- and femtosecond timescale. It is therefore sufficient to restrict the analysis to electron densities emitted along one axis. Cite this chapter as: Read F.

## [PDF] Photon Absorption and Electron Scattering by Endohedrals

We first consider the cases, in which the electron here, the  $x$  electron interacting with the electric field is the one being eventually emitted figures c — f. While for a two-electron system the amplitude of the elastic collision process may be overestimated due to the reduced dimensionality of the model system, we expect this process to become even more relevant in larger, multi-electron systems. Therefore, a nearly elastic collision between the two electrons must have occurred, in which the absorbing electron  $y$  transfers most of its acquired kinetic energy to the electron originally unaffected by the field  $x$ .

## Application of a dc Fano effect polarized electron source to low

Our analysis revealed differences in the temporal signatures of all identified processes and allowed to estimate their relevance within the overall photoemission process. The upper panels, a and b , contain the dynamics of the full antisymmetric system, whereas lower panels, c — h , show the dynamics of distinguishable electrons selectively interacting with the electric field as indicated.

## Electron Correlation in Molecules

Chemical Physics Letters 1985, 113 6 , 541-545.

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