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# Pulse Radiolysis

National Cancer Institute

## Source

National Cancer Institute. *Pulse Radiolysis*. NCI Thesaurus. Code C17044.

Pulse Radiolysis is a technique of exposing a sample of material to a beam of highly accelerated electrons to initiate fast reaction events occurring between 10<sup>-11</sup> and 10<sup>-2</sup> s after energy absorption. The technique is used to study fast reactions of biologically important molecules, e.g. the kinetics and thermodynamics of redox processes and electron-transfer reactions, enzymatic processes and structural effects which are revealed by physical or kinetic properties.