

radiation reaction

Chemical reaction that is induced by ionizing radiation with γ -ray, X-ray, electron, or other high-energy beams.

Notes:

1. Radiation reactions involving polymers often lead to chain scission and crosslinking.
2. A photochemical reaction is sometimes regarded as a type of radiation reaction.

Source:

PAC, 2004, 76, 889 (*Definitions of terms relating to reactions of polymers and to functional polymeric materials (IUPAC Recommendations 2003)*) on page 894