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Radiation Processing Of Polymer Materials

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Radiation Processing of Polymer Materials and its ...

the 1970s, because of the availability of more reliable industrial electron accelerators (e.g., the Dynamitron), the lowering of the operation cost of electron beam accelerators and the optimization of γ -irradiator design and safety, radiation processing of polymers has developed into an industry of its.

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Progress in radiation processing of polymers - ScienceDirect

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Globally, approximately half of the single-use (polymer-based) medical devices manufactured today are sterilized using ionizing radiation from three main sources - the Co-60 radioisotope (gamma-rays), an electron-beam (e-beam) accelerator, or an e-beam accelerator with a target to convert the beam to X-rays.

Radiation Effects on Polymer Materials

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cal device area, radiation processing is used to manufacture hydrogels and to modify ultra-high molecular weight polyethylene (UHMWPE) for implants. Radiation processing is supported by the continued progress in electron beam (EB) accelerator development [4, 5]. A variety of electron beam para-

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radiation and its interactions with materials, and then goes into the radiation chemistry of liquid and solid systems, radiation-induced grafting, crosslinking, polymerization, polymer degradation and oxidation. Analytical methods for characterization of irradiated materials and applications of radiation processing to polymers are then covered.

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APPLICATIONS OF IONIZING RADIATION IN MATERIALS PROCESSING

radiation processing was used early on for polymer modification the irradiation of polymeric materials with ionizing radiation gamma rays x rays accelerated electrons ion beams leads to the formation of

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