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Although our goal is to understand the role of defects at the molecular level in electron trapping and the formation of space charge in polyethylene,

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Abstract. Abstract. We studied theoretically the behavior of an injected electron-hole pair in crystalline polyethylene. Time-dependent adiabatic evolution by ab

Charge injection/ejection and trapping in

Charge injection/ejection and trapping in low-density polyethylene at low and medium fields The injected electrons are trapped very close to the cathode to form a

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Self- trapping vs. non- trapping of electrons and

We show, by electronic structure based molecular dynamics simulations, that an extra electron injected in crystalline polyethylene should fall spontaneously int

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An electron trapping model is proposed to explain the previously observed thermoluminescence output from polyethylene exposed to ultraviolet radiation. Ionizati

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transparent polymers such as polyethylene, Nylon, polyester, polycarbonate, polyarylate, However, the stabilization energy through electron trapping

Observation of spin flips with a single trapped

Protons are produced in the precision trap by electron bombardment of a polyethylene target and subsequent electron impact two lines shows that spin flips are

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Thermoluminescence in polyethylene. i. electron

Thermoluminescence in polyethylene. I. Electron traps 293 convenient at this point to introduce a new notation for thermoluminescence glow

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Cross-linked polyethylene recently, it has become

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The Journal of chemical physics 123 (13), 134906-134906, 2005. 58: 2005: Models of electron trapping and transport in polyethylene: Current voltage characteristics

Cross-linked polyethylene - wikipedia, the free encyclopedia

Cross-linked polyethylene, commonly abbreviated PEX or XLPE, is a form of polyethylene with cross-links. It is formed into tubing, and is used predominantly in

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A systematic mathematical study of approximation of transformations at molecular level by appropriate electron, Production, High Voltage

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In this paper, we present a bipolar transport model in low-density polyethylene under high direct-current voltage in order to investigate the charge packet dynamic

Seminar: characterisation of charge carrier traps

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E-field dependent conduction in low-density

Polyethylene Jerilyn Where electrons are the primary charge carriers, their mobility is dependent on their probability of hopping between trapping sites treated

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