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### **Electron self- trapping and surface states in**

Polyethylene (PE) is a prototype organic insulator and the material of choice for high-voltage applications. Nonetheless, our knowledge of the microscopic processes

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

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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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LOW TEMPERATURE MEASUREMENTS OF RESISTIVITY IN LOW-DENSITY POLYETHYLENE electrons are assumed to serve as the primary charge carriers,

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Electron transport in semiconducting polymers is usually inferior to hole transport, which is ascribed to charge trapping on defect sites. The observation of an

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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

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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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Exciton self-trapping in bulk polyethylene 4627 4. Righi M C, Tosatti E, Scandolo S, Santoro G and Serra S 2001 Electron hole trapping and selftrapping in

### **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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### **Thermoluminescence in polyethylene: ii. dose**

Abstract. The dose dependence of thermoluminescence output from low- and high-density polyethylene is reported. Using a simple electron-ion recombination model of

### **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