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Space Charge In The Polymeric Insulation Of High Voltage Cables By  
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### **Patent us7732806 - refractive index variable**

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

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### **Exciton self- trapping in bulk polyethylene |**

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

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### **Journal of theoretical and applied physics | full**

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

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### **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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### **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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### **Electron trapping in low-density polyethylene -**

How to Cite. Markiewicz, A. and Fleming, R. J. (1986), Electron trapping in low-density polyethylene. J. Polym. Sci. B Polym. Phys., 24: 1713 1724. doi: 10.1002

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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  
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Charge trapping in gamma irradiated low-density polyethylene air and distilled water on charge trapping in LDPE has been studied through Electron pi g  
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### **Cross-linked polyethylene recently, it has become**

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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

### **Article metrics for: unification of trap-limited**

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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### **Low temperature measurements of resistivity in**

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

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Analysis of the phase space, Characterization of High Tc Materials and Devices by Electron Microscop Charge Migration in DNA

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Abstract The absorption spectrum of electrons trapped in polyethylene during irradiation at low temperature is studied here, and an approximate G value for this of

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Scitation: Models of electron trapping and transport in polyethylene: Current voltage characteristics

### **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 into

### **Molecular modeling of electron trapping in polymer**

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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Seminar: Characterisation Of Charge Carrier Traps In Polymeric Insulators: :

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

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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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**Electron trapping model of u.v. induced**

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

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

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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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