

# Polarons In Ionic Crystals And Polar Semiconductors By J. T. Devreese

**By J. T. Devreese**

J.T. Devreese (ed.) 1972 Polarons in ionic crystals and polar semiconductors. Amsterdam: North Holland. Devreese Polarons in ionic crystals and polar semiconductors

Frohlich's Hamiltonian is derived and the main theoretical methods for large polarons in ionic crystals and polar semiconductors, J.T. Devreese, J

number 4 IONIC POLARONS IN SOLID ELECTROLYTES\* F.G. MAHAN and W.J. PARDEE Polarons in ionic crystals and polar semiconductors, American

Title: Polaron Transport in Ionic Crystals. Authors: Borders, James Alan: Affiliation: AA(UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN.) Publication:

Strongly ionic crystals such as the alkali or silver halides have filled valence bands which are separated from empty conduction bands by forbidden regions as wide as

U of I Only Title: Polaron transport in ionic crystals: Author(s): Borders, James Alan: Doctoral Committee Chair(s):

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The energy loss function  $\text{Im}$  in Ionic Crystals and Polar Semiconductors (Edited by DEVREESE J. T.), in Ionic Crystals and Polar Semiconductors. J.T

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For further analysis of polarons we have to There are four different materials where polarons can be created ; Ionic crystals ; Non-polar covalent materials ;

Excitons in Polar Semiconductors and Ionic Crystals (ed. J.T in polar crystals" Polarons T. Devreese, S.Bednarek,J. Adamowski "Polaron effect on

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and explore the properties of self-trapped-holes and excitons in ionic crystals, Much of small polaron theory is Small polarons in real crystals:

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the particular physical properties of an electron in polar crystals and ionic semiconductors but also Schematic view of the polaron: see text. (From: Devreese, J

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