

ELECTRICAL PROPERTIES OF FeIn_2S_4

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The temperature dependence of electroconductivity and current-voltage ($I - U$) characteristics under different conditions have been investigated in FeIn_2S_4 semiconductor. The space-charge limited current is shown to be reason of a nonlinear $I-U$ characteristic. The mechanism of negative differential resistivity is found to be due to thermal breakdown. The activation energy of traps has been determined.