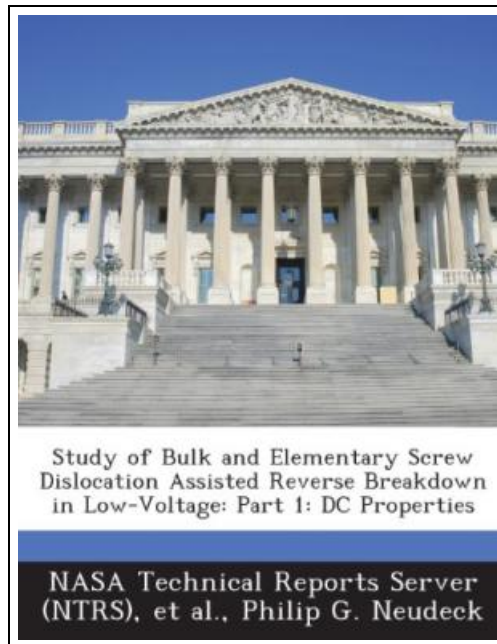


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STUDY OF BULK AND ELEMENTARY SCREW DISLOCATION ASSISTED REVERSE BREAKDOWN IN LOW-VOLTAGE: PART 1: DC PROPERTIES



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BiblioGov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 28 pages. Dimensions: 9.7in. x 7.4in. x 0.1in. Given the high density (approx. $10(\text{exp } 4)\text{sq cm}$) of elementary screw dislocations (Burgers vector $1c$ with no hollow core) in commercial SiC wafers and epilayers, all appreciable current (greater than 1 A) SiC power devices will likely contain elementary screw dislocations for the foreseeable future. It is therefore important to ascertain the electrical impact of these defects, particularly in high-field vertical power device topologies where SiC is expected to enable large performance improvements in solid-state high-power systems. This paper compares the DC-measured reverse-breakdown characteristics of low-voltage (less than 250 V) small-area (less than $5 \times 10(\text{exp } -4)\text{sq cm}$) 4H-SiC p(n) diodes with and without elementary screw dislocations. Compared to screw dislocation-free devices, diodes containing elementary screw dislocations exhibited higher pre-breakdown reverse leakage currents, softer reverse breakdown I-V knees, and highly localized microplasmic breakdown current filaments. The observed localized 4H-SiC breakdown parallels microplasmic breakdowns observed in silicon and other semiconductors, in which space-charge effects limit current conduction through the local microplasma as reverse bias is increased. This item ships from La Vergne, TN. Paperback.

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