Abstracts

The Frequency-Dependent Impedance of p-i-n Diodes (Short Papers)

R.H. Caverly and G. Hiller. "The Frequency-Dependent Impedance of p-i-n Diodes (Short Papers)." 1989 Transactions on Microwave Theory and Techniques 37.4 (Apr. 1989 [T-MTT]): 787-791.

The purpose of this paper is to demonstrate that the impedance of the p-i-n diode is definable as a function of frequency and depends on the diode's geometry and electronic properties. A procedure for calculating the equivalent series p-i-n diode impedance is presented and compared with experimental resistance versus frequency data for silicon p-i-n diodes. A procedure is also outlined for determining diode parameters for a desired resistance-frequency response.

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