

# Abstracts

## A Small-Signal and Noise Equivalent Circuit for IMPATT Diodes (Short Papers)

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*M.-S. Gupta. "A Small-Signal and Noise Equivalent Circuit for IMPATT Diodes (Short Papers)." 1973 Transactions on Microwave Theory and Techniques 21.9 (Sep. 1973 [T-MTT]): 591-594.*

A frequency-independent small-signal equivalent circuit for an IMPATT diode is proposed. It incorporates five circuit elements, including a negative resistance, and is valid over an octave range of frequency. With the addition of two white noise sources it also serves as a noise equivalent circuit.

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