

# Abstracts

## A fast noise and Z-parameter transformations between common emitter and common base InP DHBT

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*Yong Zhong Xiong, Geok-Ing Ng, Hong Wang, Chee Leong Tan and J.S. Fu. "A fast noise and Z-parameter transformations between common emitter and common base InP DHBT." 2002 Transactions on Microwave Theory and Techniques 50.4 (Apr. 2002 [T-MTT]): 1109-1113.*

A new approach has been developed that uses only a simple set of formulas to transform noise and Z-parameters between common emitter and common base configurations. This technique is based on the typical T-model of InP double-heterojunction bipolar transistor and calculated results agree with the experimental results, demonstrating that this approach is useful for many broad-band low-noise communication circuit designs.

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