

Abstracts

New extraction algorithm for GaAs-HBTs with low intrinsic base resistance

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A new algorithm for extraction of the small-signal equivalent circuit elements of HBTs is presented. An analytical non-iterative approach is used in order to ensure physical significance of the extracted parameters. In order to enhance the robustness and reliability of the extraction routine, a simplified formula to determine the intrinsic base resistance R_{b2}/I_s is presented. The new algorithm is verified by extraction of GaInP/GaAs HBT equivalent-circuit elements.

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