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國立中山大學電機工程學系

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論文題目：

矽鍺異質接面雙極性電晶體小訊號模型建立及特性化應用

Small-Signal Modeling for SiGe HBTs Characterizations

Publication List

International conference:

1. **Han-Yu Chen**, Kun-Ming Chen, Guo-Wei Huang, Chi-Huan Huang, Tsung-Hsi Yang, and Chun-Yen Chang, "Layout design of high-quality SOI varactor", *VLSI Technology, Systems, and Applications, 2003 International Symposium on*. pp. 273-275, 2003.
2. **Han-Yu Chen**, Kun-Ming Chen, Guo-Wei Huang, Chi-Huan Huang, Tsung-Hsi Yang, Ming-Hsiang Cho, and Chun-Yen Chang, "Computation of noise parameters using genetic algorithms", 34th European Microwave Conference, pp. 789-792, 2004.
3. **Han-Yu Chen**, Kun-Ming Chen, Guo-Wei Huang, Chi-Huan Huang, Tsung-Hsi Yang, and Chun-Yen Chang, "An analysis of base current effect on the anomalous dip of scattering parameter S_{12} in SiGe HBTs", Asia-Pacific Conference Proceedings, 2005.
4. Ming-Hsiang Cho, Guo-Wei Huang, Kun-Ming Chen, An-Sam Peng, Chia-Sung Chiu, Yu-Min Teng, and **Han-Yu Chen**, "A novel de-embedding technique for on-wafer microwave characterization", 34th European Microwave Conference, pp. 917-920, 2004.



International Journals:

1. **Han-Yu Chen**, Kun-Ming Chen, Guo-Wei Huang, Chun-Yen Chang, and Tiao-Yuan Huang, "A New Method to Extract MOSFET Threshold Voltage, Effective Channel Length, and Channel Mobility Using S-parameter Measurement' Substrate Network" *IEICE Trans. on Electronics*, vol.E87-C, no.5, pp.726-732, 2004.
2. **Han-Yu Chen**, Kun-Ming Chen, Guo-Wei Huang, Chun-Yen Chang and Tiao-Yuan Huang, "An Improved Approach for Small-Signal Equivalent-Circuit Parameter Determination of InGaP/GaAs HBT" *Microwave and Optical Technology Letters*, vol.44, pp.456-460, 2005.
3. **Han-Yu Chen**, Kun-Ming Chen, Guo-Wei Huang, and Chun-Yen Chang, "A Novel Approach for Parameter Determination of HBT Small-Signal Equivalent Circuit" *IEICE Trans. on Electronics*, vol.E88-C, no.6, pp.1133-1141, 2005.
4. **Han-Yu Chen**, Kun-Ming Chen, Guo-Wei Huang, and Chun-Yen Chang, "Noise Parameters Computation of Microwave Devices Using Genetic Algorithms"

IEICE Trans. on Electronics, vol.E88-C, no.7, pp.1382-1384, 2005.

5. **Han-Yu Chen**, Kun-Ming Chen, Guo-Wei Huang, and Chun-Yen Chang, “An Improved Parameter Extraction Method of SiGe HBTs’ Substrate Network” *IEEE Microwave and Wireless Components Letters*, vol.16, pp. 321-323, Jun. 2006.
6. **Han-Yu Chen**, Kun-Ming Chen, Guo-Wei Huang, and Chun-Yen Chang, “Small-Signal Modeling of SiGe HBTs Using Direct Parameter-Extraction Method” accepted for publication in *IEEE Trans. Electron Device*, vol.53, pp. 2287-2295, Sep. 2006.
7. Kun-Ming Chen, An-Sam Peng, Guo-Wei Huang, **Han-Yu Chen**, Sheng-Yi Huang, Chun-Yen Chang, Hua-Chou Tseng, Tsun-Lai Hsu, and Liang, V., “Linearity and power characteristics of SiGe HBTs at high temperatures for RF applications” *IEEE Trans. Electron Device*, vol.52, pp. 1452-1458, Jul. 2005.

