

The 21st Korean Conference on Semiconductors
제21회 한국반도체학술대회
February 24–26, 2014 / Hanyang University, Seoul, Korea

G. Device & Process Modeling, Simulation and Reliability 분과

[TJ2-G] Device Simulations/Characterization

Date	Feb. 25, 2014 (Tue.)
Place	Room J / 제1공학관 501호 (# 501, Engineering Building I)

Session Chair: 이재규 박사(삼성전자), 이성현 교수(한국외국어대학교)

- TJ2-G-1 11:10-11:25 Operation and Modeling of Select Gate Lateral Coupling eNVM**
저자: Nam-Yoon Kim¹, Sung-Kun Park¹, In-Wook Cho¹, Kyung-Dong Yoo¹, Eun-Mee Kwon², and Sang-Young Kim²
소속: ¹ TD, Image Development Group, System IC Division, SK hynix, ² DMR, Research & Development Division, SK Hynix
- TJ2-G-2 11:25-11:40 Design of New High-Performance Vertical NPN BJT and nLDMOS of Full-Featured BCD Technology**
저자: Yon-Sup Pang, François Hébert, Seongmin Cho, Juho Kim, Sookjin Kwon, Yushin Ryu, Kyungho Lee, Leeyeun Hwang, Sung-Bum Park, Jung Lee, and Taejong Lee
소속: MagnaChip Semiconductor, Corporate Engineering
- TJ2-G-3 11:40-11:55 A Dual Sweep Transfer Curve Technique for Separate Extraction of Source and Drain Resistances in Advanced FETs without Substrate Contacts**
저자: Jun Seok Hwang, Hagyoul Bae, Hyunjun Choi, Jaeyeop Ahn, Jungmin Lee, Sung-Jin Choi, Dae Hwan Kim, and Dong Myong Kim
소속: School of Electrical Engineering, Kookmin University
- TJ2-G-4 11:55-12:10 Investigation of Work-Function Variation for FinFET Using a Modified RGG Concept**
저자: Hyohyun Nam and Changhwan Shin
소속: School of Electrical and Computer Engineering, University of Seoul
- TJ2-G-5 12:10-12:25 Full Characterization of 2T SONOS Nonvolatile Memory for TSC Application**
저자: Taeho Lee¹, Youngjun Kwon¹, Jaegwan Kim¹, Sungkun Park¹, Inwook Cho¹, Kyungdong Yoo¹, Youngdong Joo², and Seungdeok Kim²
소속: ¹TD, Image Development Group, System IC Division, SK hynix, ²Wingcore Technology Inc.
- TJ2-G-6 12:25-12:40 Investigation of the THz Resonant Oscillation in HEMTs by Solving the Pseudo-2D Poisson Equation and the 1D Transport Equation**
저자: Sung-Min Hong¹, Jae-Hyung Jang¹, and Kyung Rok Kim²
소속: ¹School of Information and Communications, Gwangju Institute of Science and Technology, ²School of Electrical and Computer Engineering, Ulsan National Institute of Science and Technology