

제23회 한국반도체학술대회

2016년 2월 22일(월)-24일(수), 강원도 하이원리조트

F. Silicon and Group-IV Devices and Integration Technology 분과

Room G

봉래Ⅱ+Ⅲ(6층)

2016년 2월 23일(화) 08:30-10:30

[TG1-F] Novel Si Devices and Integrated Circuits (1)

좌장 : 이내인(삼성전자), 이종호(서울대학교)

-
- | | | |
|---------|-------------|---|
| TG1-F-1 | 08:30-09:00 | [초청] Novel Circuit Design Methodology by using of Multi-Gate Transistors
Youngmin Kim
<i>Department of Computer Engineering, Kwangwoon University</i> |
| TG1-F-2 | 09:00-09:15 | Improved Hetero-Gate-Dielectric Tunnel Field-Effect Transistors
Woo Young Cheon, Jangwoo Lee, and Woo Young Choi
<i>Department of Electronic Engineering, Sogang University</i> |
| TG1-F-3 | 09:15-09:30 | Hysteresis-Free Negative Capacitance Field Effect Transistor with Sub-kT/q(ln10) Switching
Hyunseo Park, Jaesung Jo, Kihun Choi, Seunghoon Han, Sungjin Lee, and Changwhan Shin
<i>School of Electrical and Computer Engineering, University of Seoul</i> |
| TG1-F-4 | 09:30-09:45 | Optimal Design of 10-nm Junctionless Field-effect Transistor with Poly-Si Channel in Consideration of Quantum-mechanical Drift-diffusion Models
Junsoo Lee, Youngmin Kim, and Seongjae Cho
<i>Department of Electronic Engineering, Gachon University</i> |
| TG1-F-5 | 09:45-10:00 | Bias-Dependent On-Current Modeling of Ultra Short-Channel PMOSFETs with Hot-Carrier Stress Effects
In Eui Lim ¹ , Heesauk Jhon ¹ , Gyuhan Yoon ¹ , Byung Kil Choi ² , Heung Sik Park ² , Seok Kiu Lee ² , and Woo Young Choi ¹
<i>¹Department of Electronic Engineering, Sogang University, ²R&D Division DMR Team, SK hynix Inc.</i> |
| TG1-F-6 | 10:00-10:15 | Nanowire PMOSFET Having Si Core and Ultra-thin Ge Peripheral Channel
Eunseon Yu ¹ , Mina Yun ¹ , and Seongjae Cho ^{1,2}
<i>¹Department of Electronic Engineering, Gachon University, ²Graduate School of IT Convergence Engineering, Gachon University</i> |
| TG1-F-7 | 10:15-10:30 | Experimental Demonstration of Sub-60-mV/decade Steep Switching FinFET using Negative Capacitance Effects
Jaesung Jo and Changwhan Shin
<i>School of Electrical and Computer Engineering, University of Seoul</i> |