

Planar Double-gate Transistor

[DOWNLOAD HERE](#)

Introduction. - 1 Multiple Gate Technologies; Thierry Poiroux, Maud Vinet and Simon Deleonibus. 1.1 Introduction. 1.2. Advantages of multiple gate technologies. 1.3. Planar double gate technologies. 1.4. Non planar multiple gate technologies. 1.5. Conclusions and perspectives. References.- 2 Compact Modeling of Independent Double-Gate Mosfet: a Physical Approach; Daniela Munteanu and Jean-Luc Autran. 2.1. Introduction. 2.2. Drift-diffusion Drain current modeling. 2.3. Ballistic current in the subthreshold regime. 2.4. Conclusion. References.- 3 Compact Modeling of Double Gate MOSFET for IC Design; Marina Reyboz, Olivier Rozeau and Thierry Poiroux. 3.1. Introduction. 3.2. Modeling of Independent Gate MOSFET With Independent Driven Gates. 3.3. Long channel IDG MOSFET Threshold voltage based model. 3.4. Short channel effects. 3.5. Conclusion. References.- 4 Low Frequency Noise in Double-Gate SOI CMOS Devices; Jalal Jomaah and Gerard Ghibaudo. 4.1. Introduction. 4.2. Low Frequency Noise Analysis. 4.3. Results and Discussions. 4.4. Conclusion. References.- 5 Analog Circuit Design; Philippe Freitas, David Navarro, Ian O'Connor, Gerard Billiot, Herve Lapuyade and Jean-Baptiste Begueret. 5.1. Double Gate MOSFET In Analog Design. 5.2. Current Mirrors. 5.3. Differential Pairs. 5.4. Low Voltage OTAS. 5.5. High Speed Comparators. 5.6. Conclusion. References.- 6 Logic Circuit Design With DGMOS Devices; Ian O'Connor, Ilham Hassoune, Xi Yang and David Navarro. 6.1. DGMOS characteristics and impact on digital design. 6.2. Standard cells using DGMOS. 6.3. Ultra Low Power full-adder using Double gate SOI devices. 6.4. DGMOS DEVICE based reconfigurable cells. References.- 7 SRAM Circuit Design; Bastien Giraud, Olivier Thomas, Amara Amara, Andrei Vladimirescu and Marc Belleville. 7.1. Introduction. 7.2. SRAM memories. 7.3. Double gate 6T SRAM memories. 7.4. Double gate 4T & 5T SRAM memories. References. - Conclusion. Appendix. Index. EAN/ISBN : 9781402093418 Publisher(s): Springer Netherlands Format: ePub/PDF Author(s): Amara, Amara - Rozeau, Olivier

[DOWNLOAD HERE](#)

Similar manuals: