

Reliability Of High Mobility SiGe Channel MOSFETs For Future CMOS Applications (Springer Series In Advanced Microelectronics) By Jacopo Franco;Ben Kaczer;Guido Groeseneken

By Jacopo Franco;Ben Kaczer;Guido Groeseneken

During the last decade many new concepts have been proposed for improving the performance of power MOSFETs. The results of this research are dispersed in the

<http://www.ciao.de/sr/q-mosfet,tc-750808>

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Jacopo Franco is the author of Reliability of High Mobility Sige Channel Mosfets for Future CMOS Applications (0.0 avg rating, 0 ratings, 0 reviews, publ

http://www.goodreads.com/author/show/7209931.Jacopo_Franco

Abstract. With a significantly reduced Negative Bias Temperature Instability (NBTI), SiGe channel pMOSFETs promise to virtually eliminate this reliability issue for

<http://www.sciencedirect.com/science/article/pii/S0167931713002074>

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SiGe Channel Technology: Superior Reliability improved NBTI reliability for this family of high-mobility (Si and SiGe) high-kmetal gate CMOS technology with

http://www.iue.tuwien.ac.at/pdf/ib_2012/JB2012_Grasser_5.pdf

the introduction of high mobility silicon germanium SiGe pFETs appear to be able to reach the current ITRS reliability targets. Band structure of SiGe
<http://semiengineering.com/reliability-after-planar-silicon/>

Reliability of High Mobility SiGe Channel MOSFETs for Future CMOS Applications

http://wdn2.ipublishcentral.com/springer_verlag_gmbh/viewinside/500168843568711

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(INVITED) High Reliability/Supply Chain Risks Daniel Marrujo, DMEA BTI
Reliability of High Mobility Channel Devices: SiGe, Ge, and InGaAs Jacopo Franco, IMEC

http://www.iirw.org/fileadmin/user_upload/2014progScheduleV333-1014.pdf

which is based on silicon germanium [20] AlGaAs/InGaAs pseudomorphic high electron mobility High-reliability GaAs-AlGaAs HBTs by MBE

<http://www.nepp.nasa.gov/DocUploads/FA968B63-F711-46F4-95CE441207843BC1/NEPP-TRO-GaAs%20RF.doc>

and diborane sources for the preparation of the B-doped Si This high mobility of the CVD SiGe Im by CVD and annealed at high temperature, the reliability of

<http://www.jim.or.jp/journal/e/pdf3/50/07/1596.pdf>

Reliability of SiGe channel MOS enhanced mobility and pMOS threshold voltage tuning [7]. including a high Ge fraction (55%) in the

<http://ma.ecsdl.org/content/MA2012-02/43/3119.full.pdf>

We evaluated the thermal reliability of thin SiGe epilayers High Ge-content strained SiGe-on-Si is a useful channel material in high-mobility SiGe

<http://www.sciencedirect.com/science/article/pii/S0169433211020174>

we have fabricated high mobility SiGe channel pMOSFETs after optimizing epitaxial Reliability of Strained SiGe Channel p-Channel Metal?Oxide
<http://iopscience.iop.org/1347-4065/48/4S/04C055>

12-6-2010 Intrinsic Reliability Improvement in Biaxially Strained SiGe p-MOSFETs due to its high hole mobility and at SiGe/high-k as
http://www.academia.edu/2835462/Intrinsic_reliability_improvement_in_biaxially_strained_SiGe_p-MOSFETs

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<http://www.worldcat.org/title/reliability-of-high-mobility-sige-channel-mosfets-for-future-cmos-applications/oclc/863151654>

and silicon germanium have received significant the buried Si_{0.4}Ge_{0.6} serves as a high mobility p- reliability concern in some of these devices is the shift of
http://www-mtl.mit.edu/research/annual_reports/2003/elec_devices.pdf

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ESD characterization of high mobility SiGe Quantum Well and Ge is the use of High Mobility the ESD reliability of such a technology option is
<http://ieeexplore.ieee.org/iel5/6327836/6333279/06333355.pdf?arnumber=6333355>
[55](#)

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