

Optimization • Reliability & Variability • Path-Finding • DTCO



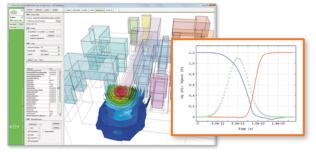
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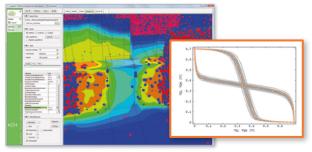
Predictions based on physics.

Profound TCAD, **Based on Research and Physics**

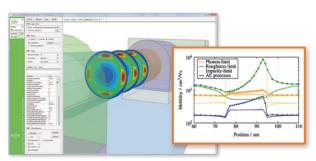




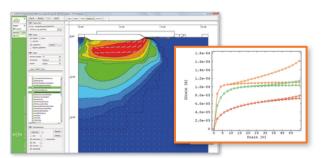
2D/3D Device & Process Simulation Planar CMOS, FD-SOI, FinFET, Nanosheet transistors



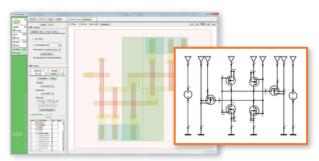
Variability (RDD, MGG, LER, GER, Process) Statistical device & circuit analysis and optimization



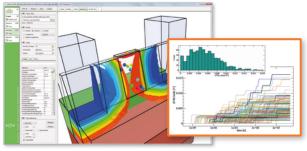
Emerging Devices / Path Finding Nano-wire transistors, novel materials (SiGe, III/V, GeSn), TFETs; Physical device simulation (SB-BTE, BTBT)



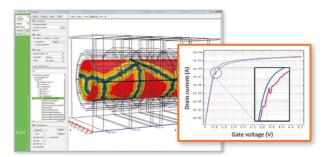
Analog Devices, RF Applications, TFTs, Power Devices, Wide band-gap (SiC, GaN)



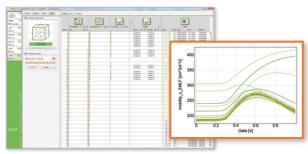
Circuit / Mixed Mode Simulation Compact model extraction, SRAM, full-cell analysis



Reliability (BTI, HCD, TDDB, RTN) Radiation effects (SET, SEU, TID)



Non-Volatile Memory NOR Flash, NAND Flash, SONOS, 3D-NAND Program / erase, endurance, data retention, variability



DOE, Optimizer, Scripting, **Distributed Computing (Grid & Cloud)**

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Global TCAD Solutions GmbH (GTS) is developing next-generation TCAD tools for industrial applications based on innovation and scientific research – with over 150 relevant publications. GTS's mission is to provide powerful and efficient, yet easy-to-use solutions based on models well-founded in physics helping our clients to create and optimize outstanding semiconductor devices.