Dataset: 22 nm bulk FinFET Total Ionizing Dose simulation

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Abstract
Total Ionizing Dose is simulated using the gamma radiation model in a 22 nm FinFET device in Synopsys Sentaurus TCAD. Charge transport and trapping are activated in the field oxides.

Code availability
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Description

'22nm_FinFET_Id_Vg.gzp' contains Current-Voltage calibration to characteristics of 22nm commercial FinFET node.

'22nm_FinFET_Radiation.gzp' contains 3D gamma radiation simulations of the device under zero bias. Gamma radiation, charge transport and trapping are activated in the bulk oxides.

Usage Notes
All files are workbench projects which were extracted with openssl encryption and no key.

The process simulation runs fine on version H-2013.03 of Sentaurus TCAD.

Citing
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