

Applied MDLx™ Ginestra™ Simulation Software (Anti)Ferroelectric Capabilities – V3.1

Models

- Preisach model of hysteresis
- Landau-Ginzburg model of switching > new in v3.1 <
 - Domain nucleation
 - Domain coupling
 - Viscosity of switching

Devices

- FeCAP
- Fe-RAM
- 3D-FRAM
- FTJ
- FeFET
- 3D-FeFET
- NC-FET

Tests

- IV (DC, transient)
- CV
- Transient CV (hysteresis) > new in v3.1 <
- PUND (positive-up negative down)
- FORC (first order reversal curves)

Reliability Characterization

- Wake-up > new in v3.1 <
- Fatigue > new in v3.1 <
- Variability
- BD

