

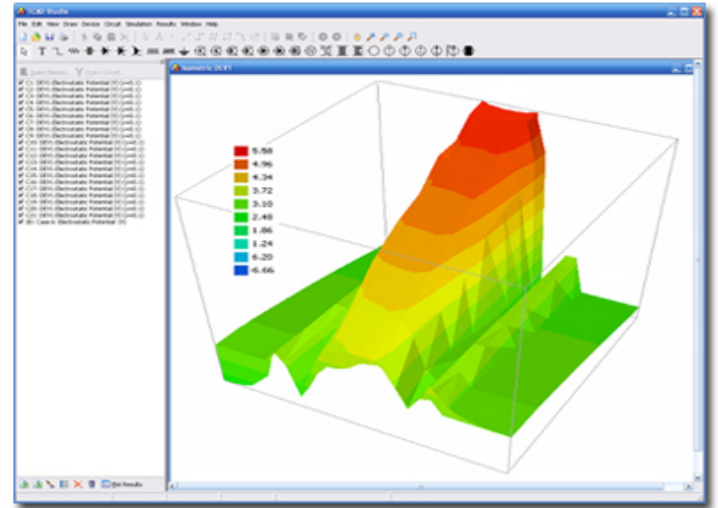
TCAD Studio

Intuitive Technology CAD that's powerful, yet affordable

Introducing TCAD Studio

TCAD Studio offers professional processes and device simulation for the desktop PC with the minimum of effort and at an affordable price. With TCAD Studio you can accurately simulate real fabrication processes and build sophisticated circuit models in a powerful, yet easy to use TCAD environment.

Designed for engineers, TCAD Studio offers a host of features designed to help you optimise your process and refine your product designs, plus much more!



Detailed Feature List

- Steady state and transient simulation modes, with full electro-thermal and mixed-mode modelling capability.
- Ultra-fast simulation of implantation and diffusion processes using multi-grid methods.
- Material library includes Silicon, Oxide, Air, GaAs, AlAs, InP, GaP, InAs, AlGaAs, InAlAs, InGaAsP and SiC.
- Models for temperature, high and low fields, surface mobility, SRH, auger and direct recombination, band gap narrowing.
- Advanced compact models for Mosfet, NPN, PNP, Thyristor, nptIGBT, ptIGBT and PIN devices.
- Isometric and contour plots of electrostatic potential; quasi-fermi levels and energies; band energies; temperature; hole and electron mobility and concentration; doping concentration; E Field; net charge concentration; recombination rate; intrinsic carrier concentration; valence band offsets; total, hole and electron currents.

Customer Benefits

With access to the full range of device physics and electro-thermal modelling, TCAD Studio provides a reliable and cost effective way to evaluate the performance and characteristics of semiconductor devices.

TCAD software doesn't need to be complex or expensive. In fact, our principle concern is in producing a product that is simple to use and welcomed by everyone in your organization. We believe we've succeeded in creating a powerful, yet affordable software tool, backed by responsive technical support.

For more information

Please visit our website or distributor

UK	www.esemi.com
Taiwan	www.microport.com.tw
USA	www.nxs.com
Japan	www.i-vis.co.jp