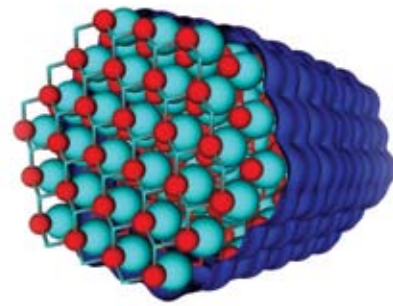


ATOMISTIX TOOLKIT®

Atomic-Scale Modeling Software for Nanoelectronics



Atomistix ToolKit (ATK) offers unique capabilities for simulating electrical transport properties of nanodevices on the atomic scale. Based on an open architecture which integrates a powerful scripting language with a graphical user interface, ATK is a comprehensive platform for studies in nanoelectronics, using both accurate first-principles (DFT) and fast semi-empirical methods. Moreover, ATK includes a very advanced electrostatic model to allow realistic simulations of nanoscale transistor structures.

ATK is also an ideal tool for educational courses in various subjects, from basic quantum mechanics to graduate courses in nanoelectronics. Special discounts are available for teaching licenses.

Since 2006, over 260 scientific articles have been published using ATK. The software is used by over 100 research groups at leading universities, government labs, and electronics companies around the world, in a wide range of application areas (see other side).

STUDY

- › GRAPHENE & NANOTUBES
- › NANOWIRES
- › MAGNETIC TUNNEL JUNCTIONS
- › MOLECULAR ELECTRONICS
- › COMPLEX INTERFACES
- › HIGH-K DIELECTRICS
- › SPINTRONICS
- › SINGLE-ELECTRON TRANSISTORS

CALCULATE

- › I-V CURVE
- › TRANSISTOR CHARACTERISTICS
- › SPIN CURRENT
- › SCHOTTKY BARRIER
- › LEAKAGE CURRENT
- › CONTACT RESISTANCE
- › TUNNEL MAGNETO-RESISTANCE
- › CHARGE STABILITY DIAGRAM

