

## Article Index

- ["Michigan Nano Computational Cluster" \(MNC2\)](#)
- [1D Transient Heat Conduction CDF Tool](#)
- [A Brief Overview of Nanotechnology Adoption by Industry](#)
- [a TCAD Lab](#)
- [AAA Test Topic page](#)
- [ABACUS—Introduction to Semiconductor Devices](#)
- [ACUTE—Assembly for Computational Electronics](#)
- [All Spin Logic](#)
- [Aluminum-Rich Bulk Alloys: an Energy Storage Material for Splitting Water to Make Hydrogen Gas on Demand](#)
- [ANTSYS—Assembly for Nanotechnology Survey Courses](#)
- [AQME Advancing Quantum Mechanics for Engineers](#)
- [Band Bending and Potential & Kinetic Energies Lesson](#)
- [Band Structure Lab Learning Materials](#)
- [Best Solution to Export Office 365 Mailbox to PST File](#)
- [BJT Lab Learning Materials](#)
- [Bonding Model Lesson](#)
- [Bound States Lab Learning Materials](#)
- [Boundary Layer Flow Solution](#)
- [Bulk Monte Carlo Learning Materials](#)
- [Bulk-Charge Theory Lesson](#)
- [C\(60\) Fullerene and DNA](#)
- [Carbon Nanotube Fracture](#)
- [Carbon nanotubes and graphene nanoribbons](#)
- [Carrier Statistics Lab Learning Materials](#)
- [Carriers in Semiconductors Lesson](#)
- [CDF Tools for Heat Transfer](#)
- [Closed Captioning \(CC\) for nanoHUB Videos](#)
- [Closed Captioning \(CC\) for nanoHUB videos: Downloading CC Text Files](#)
- [CNT Bands Challenge Problem](#)
- [CNT Bands Learning Materials](#)
- [CNT Bands Problems](#)
- [Computational Optoelectronics Course](#)
- [Continuity Equations Lesson](#)
- [Crystal Viewer Tool Learning Materials](#)
- [Crystalline Structure](#)
- [Data Archiving](#)
- [Density of States Lesson](#)
- [Derivation of Planck's Law](#)
- [Diffusion Lengths Lesson](#)
- [Diffusion Lesson](#)
- [Drift Current Lesson](#)
- [Drift Lesson](#)

- [Drift-Diffusion Lab Learning Materials](#)
- [EDB Recovery Tool](#)
- [EE 3329 - Electronic Devices Syllabus](#)
- [Effective Mobility Lesson](#)
- [Electronics from the Bottom Up: A New Approach to Nanoelectronic Devices and Materials](#)
- [Electronics from the Bottom Up: Summer School 2012](#)
- [Electronics from the Bottom Up: Summer School 2012 Registration and Housing Information](#)
- [EML Converter to Move EML to PST](#)
- [Equilibrium Carrier Concentrations Lesson](#)
- [Export & Import Thunderbird to Outlook](#)
- [Fin Temperature CDF Tool](#)
- [French & American Young Engineering Scientists Symposium 2009](#)
- [GAMESS \(General Atomic and Molecular Electronic Structure System\)](#)
- [General Chemistry. Nanoscience and Computational Chemistry Modules](#)
- [Get Started Developing Tools for nanoHUB.org](#)
- [GlobalHUB—The Global Engineering HUB](#)
- [GNR Challenge Problem](#)
- [Help: Admonitions](#)
- [Help: Includes](#)
- [Help: Index](#)
- [Help: Page History](#)
- [Help: Templates](#)
- [Help: Wiki Formatting](#)
- [Help: Wiki HTML](#)
- [Help: Wiki Macros](#)
- [Help: Wiki Math](#)
- [Help: Wiki Page Names](#)
- [How to Create Online Presentations using Powerpoint](#)
- [How to Fix "Errors have been detected in the .OST file" in Outlook?](#)
- [How to import PST file to outlook 365?](#)
- [How to Translate Closed Captions for nanoHUB Videos on YouTube](#)
- [How to turn on Closed Captioning for nanoHUB videos on YouTube](#)
- [How to Turn on Closed Captioning for nanoHUB Videos on YouTube](#)
- [Information For New Students](#)
- [Information for New Students](#)
- [Inter-Valley vs. Intra-Valley Scattering in Zigzag-Edge Graphene Nano-Ribbons](#)
- [Introduction to Quantum Chemistry and Molecular Modeling.](#)
- [Introduction to Reliability](#)
- [Introduction to the Unix command line](#)
- [Key Electronic Properties of Carbon Nano Tubes](#)
- [KeyPropertiesGNR](#)
- [LAMMPS \(Large-Scale Atomic/Molecular Massively Parallel Simulator\)](#)
- [Launch MBOX Converter and easily export MBOX to PST](#)
- [Launch MBOX Converter to Export MBOX to PST](#)

- [Launch MBOX Converter to Export MBOX to PST](#)
- [Launch MBOX Converter to Export MBOX to PST](#)
- [Learning Module: Atomic Picture of Plastic Deformation in Metals](#)
- [Learning Module: Bonding and Band Structure in Silicon](#)
- [Lessons from Nanoscience](#)
- [Lessons from Nanoscience: Information for Prospective Authors](#)
- [Lundstrom Group](#)
- [madFETs](#)
- [Main Page](#)
- [Main Page](#)
- [Main Page](#)
- [MEEP \(MIT Electromagnetic Equation Propagation\)](#)
- [Mobility and Scattering Lesson](#)
- [Molecular dynamics simulations of materials](#)
- [Molecular Modeling and Electronic Structure Calculations with QC-Lab](#)
- [MOSCap Learning Materials](#)
- [MOSCap Tool on nanoHUB.org](#)
- [MOSFet Learning Materials](#)
- [Nanobiotechnology Resources for K-12](#)
- [nanoHUB Assessment](#)
- [nanoHUB Environments](#)
- [nanoHUB Resources for K-12](#)
- [nanoHUB Virtual Organization](#)
- [nanoHUB.org Publications on Impact](#)
- [nanoHUB.org Style Guide 1.5](#)
- [nanoHUB: Author Incentives](#)
- [nanoHUB: Impact On Education](#)
- [nanoHUB: Lowering Barriers to Modeling and Simulation](#)
- [nanoHUB: Research use for NCN internal Research and Development](#)
- [nanoHUB: Social Network of Citations](#)
- [nanoHUB: Use by Experimentalists](#)
- [nanoHUB: Use of External Resources by External Researchers](#)
- [nanoHUB\\_remote](#)
- [nanoHUB\\_remote](#)
- [NCN at Berkeley Tools](#)
- [NCN at Illinois Tools](#)
- [NCN at Northwestern Tools](#)
- [NCN at Purdue Tools](#)
- [NCN Nano Electro-Mechanical Systems](#)
- [NCN Nano-Devices for Medicine and Biology](#)
- [NCN Nanoelectronics](#)
- [NCN Nanomaterials](#)
- [NCN Nanophotonics and Metamaterials](#)
- [NCN Student Banquet](#)
- [NCN Student Research Symposium 2009](#)
- [NCN URE Communicating Science Resources](#)

- [NCN URE Research and Graduate School Resources](#)
- [NCN Workshop on Simulation-Based Learning: Exploring Semiconductors, Nanoelectronics, and Beginning Chemistry](#)
- [NCN-NEEDS Summer Schools](#)
- [NCN@Purdue student seminar series](#)
- [NCN@Purdue Students](#)
- [NEMO3D](#)
- [New Research Computation Mathematics for Science Engineering & Design Technology:](#)
- [Notes on the quantum of thermal conductance](#)
- [OMEN](#)
- [OMEN Nanowire Lab Learning Materials](#)
- [Optical and thermodynamic properties of gold metal nanoparticles. Effect of chemical functionalization.](#)
- [Periodic Potential Lab Learning Materials](#)
- [Piece-Wise Constant Potential Barriers Tool Learning Materials](#)
- [PN Junction Lab Learning Materials](#)
- [PN Junction: Qualitative Analysis Lesson](#)
- [Polymer Service](#)
- [Primer on the MOSFET Simulator on nanoHUB.org](#)
- [Prospectus](#)
- [Purdue Workshop—Predictive materials modeling and simulations: nano- and micro-mechanics](#)
- [Quantum Chemistry for Engineers: Nanohub Nanoscience Projects](#)
- [Quantum Dot Lab Learning Materials](#)
- [Quasi-Fermi Levels Lesson](#)
- [Radial 1D Heat Conduction in 3 Regions](#)
- [Recombination of Electrons Lesson](#)
- [Resonant Tunneling Diode Learning Materials](#)
- [Resources for Materials Science and Engineering](#)
- [Resources for Volume 1](#)
- [Resources for Volume 2](#)
- [Retinal Isomerization](#)
- [Role of Normal Processes in Thermal Conductivity of Silicon](#)
- [SCHRED Learning Materials](#)
- [Semiconductors Composition Lesson](#)
- [Semiconductors Structure Lesson](#)
- [Session Archaeology](#)
- [Simplifying the Minority Carrier Diffusion Equations Lesson](#)
- [Simulation of laser devices with ActiveMedia nanophotonics tool \(ACME NPDS\)](#)
- [Square-Law Theory Lesson](#)
- [Submit a Prospectus:](#)
- [Summer School 2011](#)
- [Summer School Schedule](#)
- [Tanya Faltens' Topics Page](#)
- [test](#)

- [Test Help](#)
- [The Band Gap Energy and Material Classification Lesson](#)
- [The Bohr Model of the Atom](#)
- [The Energy Band Model Lesson](#)
- [The Fermi Function Lesson](#)
- [The Ideal Diode Equation Lesson](#)
- [The NEGF Approach to Nano-Device Simulation](#)
- [The One-Dimensional Minority Carrier Diffusion Equations Lesson](#)
- [The Threshold Voltage Lesson](#)
- [ThermalHUB](#)
- [Trip to Argonne, Spring 2009](#)
- [Upload & Migrate Thunderbird to Office 365](#)
- [Verification of the Validity of the CNTBands Tool](#)
- [ZT to COP Thermoelectric CDF Tool](#)
- [zuki](#)
- [zuki](#)