Article Index

- “Michigan Nano Computational Cluster” (MNC2)
- 1D Transient Heat Conduction CDF Tool
- A Brief Overview of Nanotechnology Adoption by Industry
- a TCAD Lab
- ABACUS—Introduction to Semiconductor Devices
- ACUTE—Assembly for Computational Electronics
- All Spin Logic
- ANTSY—Assembly for Nanotechnology Survey Courses
- AQME Advancing Quantum Mechanics for Engineers
- Band Bending and Potential & Kinetic Energies Lesson
- Band Structure Lab Learning Materials
- 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
- 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
• Equilibrium Carrier Concentrations Lesson
• Fin Temperature CDF Tool
• French & American Young Engineering Scientists Symposium 2009
• GAMESS (General Atomic and Molecular Electronic Structure System)
• 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 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
• 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)
• 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
• 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:
• NEWT Educational Resources
• 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
Physiotherapie Berlin
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
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
Verification of the Validity of the CNTBands Tool
ZT to COP Thermoelectric CDF Tool