

Nanotechnology simulation and more
Always on, around the globe



Issue 23

nanoHUB-U short-short courses

nanoHUB-U short self-paced courses are a great way to bring you up to speed on a subject of interest in a relatively short time (2-8 hours). Currently, nanoHUB-U is offering two short-short courses:

1. **[Thermal Resistance in Electronic Devices](#)**: This short course gives an introduction to the fundamentals of device heating, to simple methods for estimating the device temperature during operation, and to temperature measurement methods. The four short lectures are just 15-25 min each, can be taken together or independently, and are designed to bring students and engineers up to speed quickly.
2. **[The Science, Art, and Practice of Analyzing Experimental Data and Design Experiments](#)**: This course focuses on the physics of reliability of small semiconductor devices.

Course Announcements

edX Courses

[Biological Engineering: Cellular Design Principles](#) (Enrollment still open) by Jenna Rickus, Professor of Biological Engineering and Biomedical Engineering, Purdue University

Explore established and emerging cellular design principles and learn how cells function as the basis for cellular engineering.

[Physics of Electronic Polymers - Coming Summer 2017](#) by Bryan Boudouris, Associate Professor of Chemistry, Purdue University

nanoHUB-U: [Nanophotonic Modeling](#) (2nd edition)

Check out the 2nd edition of Professor Peter Bermel's [Nanophotonic Modeling](#). The course is an introduction to photonic materials and devices structured on the wavelength scale. Generally, these systems will be characterized as having critical dimensions at the nanometer scale. These can include nanophotonic, plasmonic, and metamaterials components and systems.

Go to [course page](#)

nanoHUB Community Engagement

Upcoming Events

[Biomarker Summit 2017](#)

When: March 20th, 2017

Where: San Diego

[Son et Lumiere 2017: Combining Light and Sound at the Nanoscale](#)

When: April 17th, 2017

Where: Les Houches, French Alps, France

[Explore Events](#)

New Resources

[NanoCraft-FIBstream: Focused Ion Beam Stream File Generator](#)

[Topological Spintronics: from the Haldane Phase to Spin Devices](#)

[Inference from Single Molecules to Cells](#)

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Pioneering research, education, outreach, and support for nanotechnology community formation and growth drives nanoHUB. You can take part in growing nanoHUB's community engagement via:

- [Groups](#): An easy way to share content and conversation, either privately or with the world. Participate in a group that already exists for a specific interest or topic and if you can't find the one you're looking for, start one and engage with the nanoHUB community.
- [Projects](#): Whether working on a new funding proposal, research paper or developing an application, projects are a great way to manage your data, workflow and communications with colleagues and members of the community.
- [Q & A Forum](#): Participate in the Q&A forum by asking and answering questions and benefit the whole community. The more people participate, the stronger the forum becomes. Based on the quality of the questions and responses, users can earn nano-points.
- [Resources](#): Share and publish your resources including animations, papers, simulation tools, and online presentations with the nanoHUB community. Royalties (nano-points) are earned on resources that are found to be of value to the community through a variety of measures.