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This tool calculates plasmonic properties of dielectric heterostructures, such as and is useful for people building bio-sensors based on refractive index sensing and plasmonic coupling, as well as people who wish to compute fields for SERS or other field enhanced spectroscopies.

nanoHUB.org - Group: Nanophotonics – Simulation Tools

Foundation of Nanophotonics • Free space propagation of both electrons and photons can be described by Plane Waves. • Momentum for both electrons and photons,  $p = (\hbar/2 \pi)k$  • For Photons,  $k = (2 \pi / \lambda)$  while for Electrons,  $k = (2 \pi / \hbar)mv$  • For Photons, Energy  $E = pc = (\hbar/2 \pi)kc$  while for Electrons,  $E = \sqrt{p^2c^2 + m^2c^4}$

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A comprehensive database of recipes and results of graphene synthesis by chemical vapour deposition, as well as a suite of software tools to analyze the database.

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Introduction to Nanophotonics by Sergey V. Gaponenko

This course can also be taken for academic credit as ECEA 5606, part of CU Boulder 's Master of Science in Electrical Engineering degree. Nanophotonics and Detectors Introduction This course dives into nanophotonic light emitting devices and optical detectors, including metal semiconductors, metal semiconductor insulators, and pn junctions.

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nanoHUB-U Nanophotonic Modeling L1.1: Photonic Bandstructures and Bandgaps: Introduction

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