EEMF6319 - Quantum Physical Electronics

EEMF 6319 Quantum Physical Electronics (3 semester credit hours) Quantum-mechanical foundation for study of nanometer-scale electronic devices. Principles of quantum physics, stationary-state eigenfunctions and eigenvalues for one-dimensional potentials, interaction with the electromagnetic field, electronic conduction in solids, applications of quantum structures. Prerequisite: ENGR 3300 or equivalent. (3-0) Y