PHYS4371 - Solid State Physics

PHYS 4371 Solid State Physics (3 semester credit hours) This course provides a basic but detailed picture of important concepts in solid state physics. Material covered includes crystal structure, x-ray crystallography, reciprocal space, lattice vibrations, thermal properties of solids, free electron gas, Bloch functions, metals, insulators, and semiconductors. The course concludes with a description of basic semiconductor devices. Prerequisite: PHYS 3416 and PHYS 4301. (3-0) Y