



Relação de Disciplinas

41010020 Programa de Pós-Graduação em Física ME

Disciplina	Nome da Disciplina	Créditos			Situação
		T	TP	P	
FSC410125	TÓPICOS ESPECIAIS EM FÍSICA E: Física do estado sólido e aplicações da teoria de campos à matéria condensada Independent Electrons: Crystal Lattices, The Reciprocal Lattice, Independent Electrons in a Periodic Potential, Bloch's Theorem and Static Crystals. Vibrating Crystals: The Harmonic Approximation, Classical Description of Crystal Oscillations, Quantum Description of Crystal Oscillations, Thermodynamics of Phonon. Interacting Electrons: Quantum Theory of Many-Electron Systems, Non-Interacting Electrons, Electron-Electron Interactions: the Coulomb Interaction, The Hubbard Model, Exchange interactions and Magnetism, The Heisenberg Model, Electron-Phonon Interactions. Interactions in Action: Magnetic Order, Strongly Correlated Systems, Conductivity, Superconductivity.	4	0	0	Ativo