COURSE DETAIL

MATERIAL PHYSICS
Country China
Host Institution Peking University, Beijing
Program(s) Peking University
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Physics
UCEAP Course Number 139
UCEAP Course Suffix
UCEAP Official Title MATERIAL PHYSICS
UCEAP Transcript Title MATERIAL PHYSICS
UCEAP Quarter Units 3.00
UCEAP Semester Units 2.00

Course Description

This course investigates material properties from the perspective of condensed matter physics. We will cover the mechanical, thermal, electrical, magnetic and optical properties of materials, learn to apply qualitative and quantitative analysis and understand these properties based on the interaction between atoms and molecules, crystalline structure, electronic and magnetic structures and morphology. Through the course of study, we will know the most dominant factors affecting material properties and know how to estimate material properties in a certain range.

Language(s) of Instruction
Chinese

Host Institution Course Number
01032390

Host Institution Course Title
MATERIAL PHYSICS

Host Institution Course Details
https://dean.pku.edu.cn/service/web/courseDetailEn.php?flag=1&zxjhbh=BZ25261010...

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Course Last Reviewed
2025-2026

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