

COURSE DETAIL

SOLID STATE FUNDAMENTALS FOR ENGINEERING

Country

Spain

Host Institution

Carlos III University of Madrid

Program(s)

Carlos III University of Madrid

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Physics Engineering

UCEAP Course Number

109

UCEAP Course Suffix**UCEAP Official Title**

SOLID STATE FUNDAMENTALS FOR ENGINEERING

UCEAP Transcript Title

SOLID STATE FUNDMTL

UCEAP Quarter Units

5.00

UCEAP Semester Units

3.30

Course Description

Topics in this Engineering Physics course include: bonding in solids; lattice vibrations, phonons, and heat capacity; theory of free electrons in metals; band theory of solids; semiconductors; dielectric materials; magnetic materials; optical properties of materials; superconductivity.

Language(s) of Instruction

English

Host Institution Course Number

18311

Host Institution Course Title

FUNDAMENTOS DE ESTADO SÓLIDO PARA INGENIERÍA

Host Institution Course Details

<https://aplicaciones.uc3m.es/cpa/generaFicha?est=363&anio=2024&plan=434&asig=18...>

Host Institution Campus

LEGANÉS

Host Institution Faculty

Escuela Politécnica Superior

Host Institution Degree

Grado en Ingeniería Física

Host Institution Department

Departamento de Física

Course Last Reviewed

2024-2025

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