COURSE DETAIL

SOLID STATE ELECTRONICS
Country Taiwan
Host Institution National Taiwan University
Program(s) National Taiwan University
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Electrical Engineering
UCEAP Course Number 113
UCEAP Course Suffix
UCEAP Official Title SOLID STATE ELECTRONICS
UCEAP Transcript Title SOLID STATE ELECTR
UCEAP Quarter Units 4.50
UCEAP Semester Units 3.00

Course Description

This course covers the basics of semiconductors. Topics: Crystal Structure of Solids; Introduction to Quantum Mechanics and The Quantum Theory of Solids; Semiconductor in Equilibrium; Carrier Transport Phenomena; Nonequilibrium Excess Carrier in Semiconductor; Junction Theory and Diode; Metal Semiconductor Contacts and Heterojunctions (Metal Semiconductor Contacts and Heterojunctions).

Language(s) of Instruction
English

Host Institution Course Number
EE3013

Host Institution Course Title
SOLID STATE ELECTRONICS

Host Institution Course Details

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department
Electrical Engineering

Course Last Reviewed
2022-2023

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