

103-2 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	固態物理	Serial No. / ID	2020 / EGR5079
Dept.	電機工程學系碩士班	School System / Class	研究所碩士班1年1班
Lecturer	范榮權	Full or Part-time	專任
Required / Credit	Optinal / 3	Graduate Class	No
Time / Place	(五)234 / H369	Language	Chinese

Introduction
利用晶格結構及量子力學基本原理，使學生瞭解半導體及其他物質（如超導體、磁性物質）的能帶結構及基本特性。

Outline
Chapter1 Crystal structure Chapter2 Crystal diffraction and the reciprocal lattice Chapter3 crystal binding Chapter4 free electron fermi gas Chapter5 energy bands Chapter6 semiconductor crystals Chapter7 fermi surfaces and metals Chapter8 Optical properties and excitons Chpater9 superconductivity

Prerequisite
微積分及普物