

97-2 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	薄膜太陽電池技術	Serial No. / ID	2029 / EDR5020
Dept.	電機工程學系博士班	School System / Class	研究所博士班1年1班
Lecturer	張國雄	Full or Part-time	專任
Required / Credit	Optinal / 3	Graduate Class	NO
Time / Place	(二)ABC / H202	Language	Chinese

Introduction
TBA

Outline
Ch 1 Background and Motivation; Recent advances and future opportunities for thin film solar cell
Ch 2 Recent advances and future opportunities for thin film solar cell
Ch 3 Epitaxy thin film crystalline silicon solar cells on low cost silicon carriers
Ch 4 Crystalline silicon thin film solar cells on foreign substrates by high temperature deposition and recrystallization
Ch 5 Thin film polycrystalline silicon solar cells
Ch 6 Advance in microcrystalline silicon solar cell technologies
Ch 7 Advance amorphous solar cell technologies
Ch 8 Electrical and optical properties of amorphous silicon and its alloys
Ch 9 Preparation and properties of Nanocrystalline silicon
Ch 10 Key issue for the efficiency improvement of silicon base stacked solar cells
Ch 11 Development of amorphous-silicon single-junction solar cells and their application systems
Ch 12 The production of a-Si-H/a-SiGe:H/a-SiGe ₂ H stacked solar cell modules and their application
Ch 13 CdTe thin film solar cells: characterization, fabrication and modeling
Development of CIGS thin film solar cell
Ch 14 Nanocrystalline injection solar cells

Prerequisite
None