MATE130065	薄膜材料与器件	学分: 2	周学时: 2
	Thin Film Materials and Devices	总学时: 36	
预修课程:	材料制备与加工 或	薄膜技术	
修读对象: 材料科学系各专业学生			

中文课程简介(150字以内)

包括薄膜材料,薄膜器件二部分。介绍半导体薄膜、高温超导薄膜、透明导电薄膜、铁电薄膜、金刚石薄膜等薄膜材料以及薄膜太阳能电池、薄膜晶体管等薄膜器件。着重介绍这些薄膜材料与薄膜器件的原理、结构、特性和应用。

英文课程简介

This course aims at introducing two aspects on thin films, including: thin film materials, mainly discussing semiconducting thin films, high temperature superconducting thin films, transparent conducting thin films, ferroelectric thin films, thin film diamonds, etc.; thin film devices, mainly discussing thin film solar cells, thin film transistors, etc. The theory, structure, characteristics and application of thin film materials and devices are discussed.