編	素: 374 國立成功大學 102 學年度碩士班招生考試試題 共	
	所組別:口腔醫學研究所丙組	
		期:0224,節次:2
	考生請注意:本試題不可使用計算機	
1. (a) Briefly cite the main differences between ionic, covalent, and metallic bonding. (b) Sate		
	the Pauli exclusion principles.	(10%)
2.	Explain why the properties of polycrystalline materials are most often isotropi	ic. (10%)
3.	Cite the relative Burgers vector-dislocation line orientations for edge, screw, a dislocations.	ind mixed (10%)
4.	Briefly explain the concept of steady state as it applies to diffusion.	(10%)
5.	Cite five factors that lead to scatter in measured material properties.	(10%)
6.	Explain the differences in grain structure for a metal that has been cold worke that has been cold worked and then recrystallized.	ed and one (10%)
7.	Cite three processing techniques that are employed to enhance the creep res metal alloys.	istance of (10%)
8.	What is the difference between a phase and a microconstituent?	(10%)
9.	Cite two major differences between martensitic and pearlitic transformations	5. (10%)
10).How would you expect a decrease in the austenite grain size to affect the har steel alloy? Why?	denability of a (10%)
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