

# 淡江大學 108 學年度日間部轉學生招生考試試題

系別：理學院尖端材料科學學士學位學  
程三年級

科目：材料科學(含材料的合成與設計)

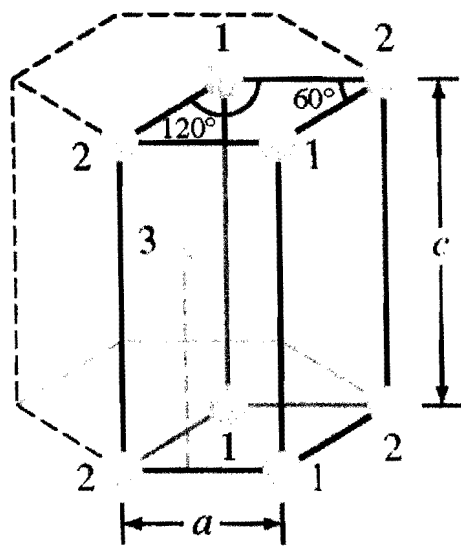
考試日期：7月24日(星期三) 第2節

本試題共 4 大題， 1 頁

1. What are the meanings for ionization energy (游離能), electronegativity(電負度), electron affinity (電子親和力), and lattice energy(晶格能)? (20%)

2. What are the meaning for ionic bonds (離子鍵), covalent bonds (共價鍵), and permanent dipole bonds (永久電偶極鍵), and fluctuating dipole bonds (變動電偶極鍵)? (20%)

3. Please calculate atomic packing factor (APF) number of hexagonal close-packed structure. (20%)



4. Please write the miller indices and direction indices for #5~#8 and #1~#4. (40%)

