

大同大學 95 學年度研究所碩士在職班入學考試試題

考試科目:科技英文

所別:化學工程研究所化工組

全 1 頁

註:本次考試 不可以參考自己的書籍及筆記; 不可以使用字典; 不可以使用計算器。

(A) 請將下列題目中譯英 (40%)

1. 由於太陽能電池的市場不斷成長，傳統的太陽能電池用的超高純度矽 (SoG, solar cell-grade silicon) 已不敷現在需求，因此研究者一直在尋找其他具經濟性之替代品。
2. 過濾技術是固液分離程序中相當重要的一環，而膜過濾更是近半個世紀發展最快速的過濾技術之一。膜過濾主要以壓力差為驅動力，其操作程序依操作壓力的增加或膜孔徑的減少次序可依序為微過濾 (簡稱 MF)，超過濾 (簡稱 UF)，奈米過濾 (簡稱 NF)，及逆滲透 (簡稱 RO 或稱 HF)。

(B) 請將下列題目英譯中 (40%)

1. Chemical engineering has to do with industrial processes in which raw materials are changed or separated into useful products. The chemical engineer must develop, design, and engineer both the complete process and the equipment used in it.
2. An economical method of organizing much of the subject matter of chemical engineering is based on two facts: (1) although the number of individual processes is great, each one can be broken into a series of steps, called operations, each of which in turn appears in process after process; (2) the individual operations have common techniques and are based on the same scientific principles.

(C) 請以中文與英文簡要介紹自己。(20%)