編號: 88

國立成功大學104學年度碩士班招生考試試題

系所組別:資源工程學系乙組

考試科目: 熱力學

考試日期:0211,節次:2

第/頁,共/買

※ 考生請注意:本試題不可使用計算機。 請於答案卷(卡)作答,於本試題紙上作答者,不予計分。

- (1) What is Boyle Temperature? (6%)
- (2) What is Hess's law? Please describe its usefulness (6%)
- (3) What is Kirchhoff's law? Please describe its usefulness (6%)
- (4) What is the Joule-Thomson coefficient? Please describe its usefulness (6%)
- (5) What is Nernst heat theorem? Please describe its usefulness (6%)
- (6) What is Trouton's rule? Please describe its usefulness (6%)
- (7) What is Gibbs-Helmholtz equation? Please describe its usefulness (6%)
- (8) What is Clausius-Clapeyron equation? Please derive it (7%)
- (9) What is contact angle? Please describe its usefulness (6%)
- (10) What is Gibbs-Duhem equation? Please derive it (7%)
- (11) What is ideal-dilute solution? Please describe its usefulness (6%)
- (12) What is regular solution? Please describe its usefulness (6%)
- (13) What is activity and activity coefficient? Please describe its usefulness (6%)
- (14) What is Le Chatelier's principle? Please describe its usefulness (6%)
- (15) What is van't Hoff equation? Please derive it (7%)
- (16) What is Nernst equation? Please describe its usefulness (7%)