

國立虎尾科技大學 109 學年度第 2 學期博士班資格考試題

系別：動力機械工程系機械與機電工程博士班

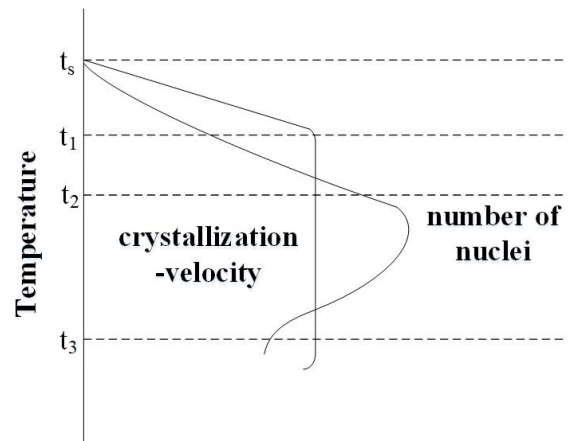
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科目：工程材料

注意事項：

- (1) 本試題共有 5 題，每題 20 分，合計一百分。
- (2) 請依序作答於答案卷上並註明題號，若未註明選答題號及超過規定題數時，謹採計作答順序較前之題目計分。
- (3) close book.

1. Please explain the relationship between the crystallization size and degree of supercooling after solidification of metal materials?



2. Please explain which types of strengthening mechanisms are available for metal materials?
3. Please explain the process of martensite transformation of carbon steel and explain the M_s and M_f points?
4. Please explain the classification of magnesium alloys?
5. Please explain the classification of composite materials?