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$H_0 = 92 \text{ KJ Mol}^{-1}$   $S_0 = 192 \text{ J Mol}^{-1} \text{ K}^{-1}$  Apr 2th, 2024

Chemical Engineering, CM3510: Chemical Reaction ...Grading: Exam 1 15% Exam 2 15% Exam 3 15% Final Exam 20% Research Paper 10% Homework 20% Class Participation 5% Last Year, The Following Grading Scale Was Used: A  $\geq 92$  A/B  $\geq 89$  B  $\geq 82$  B/C  $\geq 80$  C  $\geq 71$  C/D  $\geq 69$  D  $\geq 61$  F  $\leq 60$  If Necessary, The Grading Scale May Be Curved Downward. Apr 10th, 2024

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 $\mu_{\text{Max}} X$ ,  $X = X_0$  At  $T = 0$   $X = X_0 e^{\mu_{\text{Max}} T}$  Or  $\ln \frac{X}{X_0}$   
 $= \mu_{\text{Max}} T$  Doubling Time Of Cells ( $t_D$ ),  $X/X_0 = 2 \Rightarrow$   
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