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1.1 Rate Of Reaction And Dependence On Temperature We Will Once Again Look At The Formation Of Ammonia (NH_3) From Nitrogen And Hydrogen (see Section Chemical Equilibrium Of The Thermodynamics Chapter). This Reaction Follows The Equation: $\text{N}_2 + 3\text{H}_2 \rightleftharpoons 2\text{NH}_3$ (1) $H_0 = 92 \text{ KJ Mol}$ $S_0 = 192 \text{ J Mol K}$ 3th, 2024Chemical 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. 4th, 2024Wiley Introduction To Chemical Engineering:

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David Shonnard Department Of Chemical Engineering Michigan ...2. Growth Rate Is Independent Of Nutrient And Substrate Conc. 3. Cell Number And Mass Concentrations Increase Exponentially 4. Balanced Growth Occurs \Rightarrow Cell Composition Constant $\frac{dX}{dt} = \mu_{max} X$, $X = X_0$ At $T = 0$ $X = X_0 e^{\mu_{max} T}$ Or $\ln X - \ln X_0 = \mu_{max} T$ Doubling Time Of Cells (t_D), $X - X_0 = 2 \Rightarrow \ln(2) = \mu_{max} T_D$ $T_D = \frac{\ln 2}{\mu_{max}}$ Or $\mu_{max} = \frac{\ln 2}{T_D}$... 2th, 2024Department Of Chemical Engineering COURSE

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