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1.1 Rate Of Reaction And Dependence On Temperature We Will Once Again Look At The Formation Of Ammonia ( $\text{NH}_3$ ) 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)  $H_0 = 92 \text{ kJ Mol}$   $S_0 = 192 \text{ J Mol K}$  Apr 8th, 2024Wiley  
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10.11.1 Example Of The Substitution Method For Nonlinear Systems  
10.12 Numerical Methods To Solve Systems  
10.12.1 Shots In The Dark  
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CHE 31. INTRODUCTION TO CHEMICAL ENGINEERING CALCULATION  
Example 9-4. Absorption Of SO<sub>2</sub>  
The Molar Density Of The Feed Gas May Be Determined From The Formula  $\rho = 12.2P/(RT)$  Where P And T Are The Absolute Pressure And Temperature Of The Gas. The Following Data Are Taken For The Feed Gas: T=750F, P=150 Psig, H=210 Mm, R=82.4 And For The Outlet Gas, R=11.6. Determine The (a) Mass Fraction Of SO  
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Ash Drum, The Size Of The Drum And The Liquid And Vapor Compositions And Flow Rates. Which Of These Variables Are Specified And Which Need To Be Chosen Depend On The Application  
2. Normally, The Feed Is Specified, i.e. The Flow Rate F, Composition Z, Pressure P F And Enthalpy H F Are Known  
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