



Chemical Process Description and Parameters

$\dot{V}_{\text{H}_2}, \dot{V}_{\text{O}_2}, \dot{V}_{\text{CO}_2}, \dot{V}_{\text{H}_2\text{O}}, \dot{V}_{\text{N}_2}, \dot{V}_{\text{CH}_4}, \dot{V}_{\text{CO}}, \dot{V}_{\text{H}_2\text{S}}$

$\dot{V}_{\text{H}_2}, \dot{V}_{\text{O}_2}, \dot{V}_{\text{CO}_2}, \dot{V}_{\text{H}_2\text{O}}, \dot{V}_{\text{N}_2}, \dot{V}_{\text{CH}_4}, \dot{V}_{\text{CO}}, \dot{V}_{\text{H}_2\text{S}}$

Task 6-5

Chemical process description and parameters.



Parameter value 120

Task 6.5 description of the chemical process, including gas flow rates and stoichiometric calculations for the reaction of hydrogen and oxygen to form water. The text includes the following calculations and data:

 $G_1 = 16000$

 $\dot{V}_{\text{H}_2}, \dot{V}_{\text{O}_2}, \dot{V}_{\text{CO}_2}, \dot{V}_{\text{H}_2\text{O}}, \dot{V}_{\text{N}_2}, \dot{V}_{\text{CH}_4}, \dot{V}_{\text{CO}}, \dot{V}_{\text{H}_2\text{S}}$

 $G_2 = 80000$

 $293 \text{ K}, v_{293} = 1,05 \cdot 10^{-6} \text{ m}^3/\text{s}, 323 \text{ K}, v_{323} = 1,7 \cdot 10^{-6} \text{ m}^3/\text{s}$

