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A Solution Manual for:
COMBUSTION, 4th Ed.

by

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CHAPTER 1

Problem 1

Calculate the heat of reaction when methane and air in stoichiometric proportions are brought into a calorimeter at 500 K. The product composition is brought to the ambient temperature (298 K) by the cooling water. The pressure in the calorimeter is assumed to remain at 1 atm, but the water formed has condensed.

Solution: The heat of reaction can be calculated using Eqn. (10) in the text. However, as also suggested in the textbook, this equation can be simplified for the general case when $H_{T_1}^o = H_{T_{amb}}^o$. The modified equation becomes:

$$-Q = \Delta H = \sum_{i \in \text{prod}} n_i \left[(H_{T_2}^o - H_{T_{amb}}^o) + (\Delta H_f^o)_{T_{amb}} \right] - \sum_{j \in \text{react}} n_j \left[(H_{T_1}^o - H_{T_{amb}}^o) + (\Delta H_f^o)_{T_{amb}} \right] \quad (1)$$

In this Equation, T_2 and T_1 are the temperatures of the products and reactants respectively. The general equation for the complete combustion of one mole of methane in air is:



where a_{air} is a coefficient describing how much air is needed for stoichiometric combustion. Balancing the above reaction one has:



In order to apply Eqn. (1) to the above reaction, the following properties from Tables in the textbook are needed (note that for this problem $T_2 = 298 \text{ K}$ and $T_1 = 500 \text{ K}$):

gases	ΔH_f^o (kJ/mol)	$H_{T_1}^o - H_{T_{amb}}^o$ (kJ/mol)	$H_{T_2}^o - H_{T_{amb}}^o$ (kJ/mol)
CH_4	-74.90	8.21	0.0
O_2	0.0	6.09	0.0
N_2	0.0	5.92	0.0
$\text{H}_2\text{O}_{(l)}$	-286.04	0.0	0.0
CO_2	-393.77	0.0	0.0

Equation (1) then becomes:

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Lingjun Ying



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Heterogeneous Combustion Hans G. Wolfhard, Irvin Glassman, Leon Green, 2014-12-03 Progress in Astronautics and Aeronautics Volume 15 Heterogeneous Combustion focuses on the processes reactions methodologies and techniques involved in heterogeneous combustion The selection first offers information on the techniques for the study of combustion of beryllium and aluminum particles study of quenched aluminum particle combustion and spectroscopic investigation of metal combustion Discussions focus on the combustion of metal particles in a hot oxidizing atmosphere experimental apparatus and procedure selected examples of residue observations ignition of beryllium and photographic study of particle combustion The text then takes a look at the analytical developments experimental observations in oxygen atmospheres and experimental observations in carbon dioxide atmospheres of vapor phase diffusion flames in the combustion of magnesium and aluminum The publication ponders on the combustion of elemental boron with fluorine combustion of pyrolytic boron nitride characteristics of diborane flames oxidation of diethyldiborane and reaction of pentaborane and hydrazine and structure of the adduct The selection is a dependable reference for readers interested in heterogeneous combustion *Previews of Heat and Mass Transfer* ,1977-10

Dust Explosion Dynamics Russell A. Ogle, 2016-09-10 Dust Explosion Dynamics focuses on the combustion science that governs the behavior of the three primary hazards of combustible dust dust explosions flash fires and smoldering It explores the use of fundamental principles to evaluate the magnitude of combustible dust hazards in a variety of settings Models are developed to describe dust combustion phenomena using the principles of thermodynamics transport phenomena and chemical kinetics Simple tractable models are described first and compared with experimental data followed by more sophisticated models to help with future challenges Dr Ogle introduces the reader to just enough combustion science so that they may read interpret and use the scientific literature published on combustible dusts This introductory text is intended to be a practical guide to the application of combustible dust models suitable for both students and experienced engineers It will help you to describe the dynamics of explosions and fires involving dust and evaluate their consequences which in turn will help you prevent damage to property injury and loss of life from combustible dust accidents Demonstrates how the fundamental principles of combustion science can be applied to understand the ignition propagation and extinction of dust explosions Explores fundamental concepts through model building and comparisons with empirical data Provides detailed examples to give a thorough insight into the hazards of combustible dust as well as an introduction to relevant scientific literature

Air Pollution Engineering Manual Air & Waste Management Association, 2000-04-06 This manual characterizes air pollutant emission sources and the technology available to control them It provides industry and government with the guidelines to comply with air pollution standards and equipment used for gases and particulates

Process Safety Calculations Renato Benintendi, 2017-10-31 Process Safety Calculations is an essential guide for process safety engineers involved in calculating and predicting risks and consequences The book focuses on calculation

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