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A Solution Manual for:
COMBUSTION, 4th Ed.

by

I. Glassman, and R.A. Vetter

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:

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

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_{th} 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
$\text{H}_2\text{O}_{(liq)}$	-286.04	0.0	0.0
CO_2	-393.77	0.0	0.0

Equation (1) then becomes:

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F Rizvi



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Solution's Manual - Combustion Engineering Taylor & Francis Group,2012-07-01 *Previews of Heat and Mass Transfer* ,1977-10 **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

Recent Advances in the Aerospace Sciences Corrado Casci,2012-12-06 This volume published in honor of Prof Luigi Crocco appears when Luigi Crocco celebrates his 75th birthday of a life devoted to study research and teaching The events in his life and World War II forced Luigi Crocco as well as other Italian scientists to look to foreign countries for the calm haven so vital to study This notwithstanding his scientific activity was never interrupted and this volume is an acknowledgment of scientists and researchers to his work and life Prefazione Questo volume in onore del prof ing Luigi Crocco vede la luce quando Luigi Crocco compie i 75 anni di una vita dedicata allo studio alla ricerca e all insegnamento a Le vicende della vita ed anche della 2 guerra mondiale hanno costretto Luigi Crocco come altri scienziati italiani a dover cercare in altri Paesi quella serenità necessaria per dedicarsi allo studio Ma la sua attività scientifica non ha avuto interruzioni e questo volume essere la testimonianza di studiosi e di ricercatori alla sua opera e alla sua vita

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

British Books in Print ,1980 **Scientific and Technical Aerospace Reports** ,1976 **The British National Bibliography** Arthur James Wells,1998

Transport Phenomena in Fires Mohammad Faghri, Bengt Sundén,2008 Controlled fires are beneficial for the generation of heat and power while uncontrolled fires like fire incidents and wildfires are detrimental and can cause enormous material damage and human suffering This edited book presents the state of the art of modeling and numerical simulation of the important transport phenomena in fires It describes how computational procedures can be used in analysis

and design of fire protection and fire safety Computational fluid dynamics turbulence modeling combustion soot formation thermal radiation modeling are demonstrated and applied to pool fires flame spread wildfires fires in buildings and other examples **Books in Print** ,1981

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