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By -

RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 42 pages. Original publisher: Gaithersburg, MD: U. S. Dept. of Commerce, Technology Administration, National Institute of Standards and Technology, Building and Fire Research Laboratory, 1999 OCLC Number: (OCoLC)713570073 Subject: Combustion -- Measurement. Excerpt: . . . researchers which were obtained at higher hydrogen mole fractions. The present data and those of earlier investigations were numerically modeled using a mechanism based on Allen et al. 7 with a CO OH rate from Yu et al. 40 , and the CO N O direct reaction rate of Milks 2 and Matula 5 . Modeling of the flames requires the use of the direct reaction, and the present 9. 2.3 results imply a rate of 10 cm mol s at 1800 K, which corresponds to a 10 decrease in the pre-exponential factor of the Milks and Matula rate. Experiments with nitrogen dilution and over a range of suggest an activation energy near 71 kJ mole. For the moist flames, the CO OH rate also has a strong effect on the predicted burning velocity, and the rate of Yu et al. 40 provides good agreement with our data. Iron pentacarbonyl, which...



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