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## Experimental and Theoretical Investigation of Low-Temperature Ignition in a Laminar Flow Reactor

By Tomoya Wada

Cuvillier Verlag Nov 2011, 2011. Taschenbuch. Condition: Neu. Neuware - The main purpose of this dissertation is to investigate low-temperature ignition in detail. In the previous findings with conventional fuels such as diesel, gasoline, or jet fuels, first- and second-stage ignitions are observed in the negative temperature coefficient regime due to high- and low-temperature chemistry (LTC and HTC). As results from these investigations have shown, it is well-known that this temperature regime has high potential to reduce emission in applications. In general, these ignitions are observed sequentially (i.e., two ignition processes are observed as the overall-ignition). On the other hand, the importance of first-stage ignition due to low-temperature chemistry has been noted as one of the dominant phenomena in the overall-ignition process. In order to observe the ignition at low temperatures, a laminar flow reactor (LFR) has been developed. This LFR allows the experimental observations of only low-temperature ignition (i.e., first-stage ignition (FSI)). In other words, LFR extracts only FSI from the overall-ignition process. N-heptane, dimethyl ether and their mixtures are chosen as fuels. The entire LFR remains at isothermal conditions. Temperature increase due to the FSI in LFR and the products from FSI are experimentally measured. Numerical calculations are...



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