Combustion and Chemical Agent Defeat: Thermochemistry and Diagnostics

Experimental efforts focused on characterizing the thermochemical environments associated with chemical agent defeat scenarios are discussed. The thermochemistry of chemical agent decomposition requires a novel approach to infrared diagnostics in order to capture the time-resolved chemistry. The design of the specialized instrumentation is discussed, and experimental results for sample systems are presented, along with initial comparisons with detailed models with explicit chemistry.

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