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Radiative Characteristics and Flame Structure of Small Pool Flames

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A new way of using thermography for radiative objects like pool flames is introduced and applied to small pool flames. Radiative characteristics and flame structure of small pool flames are considered by comparing flame temperature distribution from a radiation point of view. In addition, it is shown that pool flame structure for various fuels becomes more clear when the standard deviation and the coefficient of variation obtained from thermographic data are used.

The 13th UJNR of Fire Research and Safety, Gaithersburg, U. S. A. March 13-20, 1996

Radiation Heat Transfer and Temperature Distribution in a Few Small Pool Flames

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A new way of using thermography for radiative objects like pool flames is introduced and applied to small pool flames. Radiative characteristics and flame structure of small pool flames are considered by examining flame temperature distribution from a radiation point of view. In addition, it is shown that pool flame structure for various fuels becomes more clear when the standard deviation and the coefficient of variation obtained from thermographic data are used.