Experimental Study of Transport Phenomena of Evaporating Fuel Films

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Vapor phase *diffusion* and *convection* control the evaporation rate.

Schlieren Image of an Evaporating Hexane Film:
The dark region shows the vapor cloud that forms above the film.

Correlation developed to compute the evaporation rate under *combined diffusive and convective transport*

Measured Vapor Concentration Distribution above a Hexane Film.

Only half of the distribution is presented. The distribution is axisymmetric.