

**Clavin, P.; Williams, F. A.**

**Effects of molecular diffusion and of thermal expansion on the structure and dynamics of premixed flames in turbulent flows of large scale and low intensity.** (English) Zbl 0511.76074  
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For a scan of this review see the [web version](#).

**MSC:**

76R05 Forced convection  
76V05 Reaction effects in flows  
76F99 Turbulence  
76R99 Diffusion and convection

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**Keywords:**

molecular diffusion; flow inhomogeneities; dynamics of laminar flamelets; influences of gas expansion by heat release; premixed; diffusive-thermal model; multiple-scale methods; transverse convection; heat-to-reactant diffusivity ratio; flame stretch; flame-relaxation; evolution of flame front; diffusive-stability properties

**Full Text:** [DOI](#)

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