

**Embid, P.**

**Well-posedness of the nonlinear equations for zero Mach number combustion.** (English)

Zbl 0632.76075

Commun. Partial Differ. Equations 12, 1227-1283 (1987).

A. Majda's equations for a general mixture of gases [Equations for low Mach number combustion, Center for Pure and Appl. Math., Univ. Calif. Berkeley, Rep. # 112 (1982)] are presented and it is proved that the initial value problem is well posed for periodic boundary conditions.

Reviewer: G.Boillat

**MSC:**

76L05 Shock waves and blast waves in fluid mechanics  
76T99 Multiphase and multicomponent flows  
80A32 Chemically reacting flows  
35R25 Ill-posed problems for PDEs

Cited in 1 Review  
Cited in 19 Documents

**Keywords:**

combustion equations; mixture of gases; initial value problem; periodic boundary conditions

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