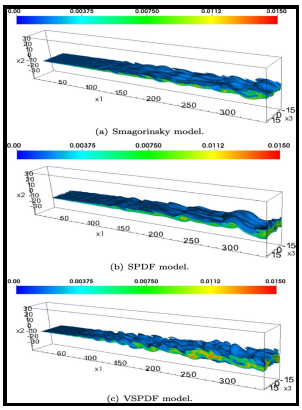
Two-dimensional numerical simulation of a supersonic, chemically reacting mixing layer

Langley Research Center - A numerical model for supersonic reacting mixing layers



Description: -
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Supersonic flow
Mixing layerstwo-dimensional numerical simulation of a supersonic, chemically reacting mixing layer
-two-dimensional numerical simulation of a supersonic, chemically reacting mixing layer
Notes: Bibliographical references: p.30-31.
This edition was published in 1988

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Equations governing the evolution of the interface and surfactant concentration are derived using long wavelength approximations. The influence of the mesh resolution and of the thermal wall condition on the simulation results is also investigated along with the soundness of the use of a laminar model for the filtered source terms. A detailed numerical model of a supersonic reacting mixing layer.

Download A Two Dimensional Numerical Simulation Of A Supersonic Chemic

Experimental findings are in agreement with the theoretical and computational results. The ability of LES to reproduce the main features found in the experiment is first emphasised such as the average velocity field and the stability of the combustion for the case studied. Synopsis : A Two dimensional Numerical Simulation of a Supersonic Chemically Reacting Mixing Layer written by John Philip Drummond, published by Anonim which was released on 03 August 1988.

Direct numerical simulation on supersonic turbulent reacting and non

Direct simulations of chemically reacting turbulent mixing layers. Arrhenius-type finite-rate chemistry is employed for the chemical reaction.

A numerical model for supersonic reacting mixing layers

Reynolds number effects on mixing and combustion in a reacting shear layer.

A numerical model for supersonic reacting mixing layers

A new schematic of flow physics is proposed to enhance the understanding of the low momentum flux ratio jet.

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