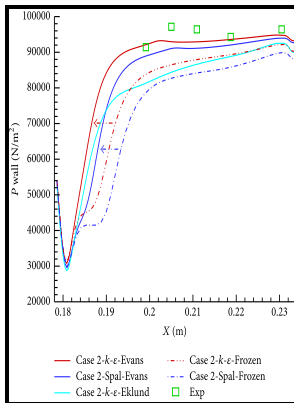# Two-dimensional numerical simulation of a supersonic, chemically reacting mixing layer

Langley Research Center - Direct numerical simulation on supersonic turbulent reacting and non

Description: -

-
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

Filesize: 10.36 MB

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Direct numerical simulation on supersonic turbulent reacting and non

The DES method provides much detailed information about mixing patterns and a more reliable mixing efficiency than the RANS result. A lifted flame, stabilized between 15 and 20 cm downstream of the hydrogen jet, is formed for hydrogen injected into a vitiated air stream.

[PDF] IMPLICIT TWO DERIVATIVE RUNGE KUTTA COLLOCATION METHODS PDF

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. Arrhenius-type finite-rate chemistry is employed for the chemical reaction. To get started finding Implicit Two Derivative Runge Kutta Collocation Methods Pdf, you are right to find our website which has a comprehensive collection of manuals listed.

CiteSeerX — Reacting Mixing

. Heat release mainly occurs in the subsonic region.

A numerical model for supersonic reacting mixing layers

On density effects and large structure in turbulent mixing layers.

Numerical simulation of supersonic reacting mixing layer

A significant diffusion dominated burning is also found inside the cavity. Reynolds stress has been found to be slightly larger in the mixing layer with intense heat release.

CiteSeerX — Reacting Mixing

The fluctuation of temperature, mixture fraction has been found to be amplified significantly in the reacting flow. The flow motions of droplets are tracked in the Lagrangian frame.

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