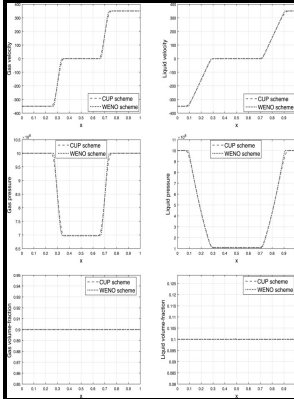


# Godunov-type schemes applied to detonation flows

Institute for Computer Applications in Science and Engineering - Implementations and tests of Godunov



Description: -

- Godunov methods

Detonation waves Godunov-type schemes applied to detonation flows

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Notes: Includes bibliographical references: p. 17-18.

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## Godunov

A theory of traffic flow on long crowded roads, Proc. Consequently, a very low-density region is created in the vicinity of the initial contact front.

### A Godunov type scheme for a class of LWR traffic flow models with non

The inhomogeneity is introduced via step functions in the reaction progress variable, with the local value of energy release correspondingly increased so as to maintain the same average energy density in the medium and thus a constant Chapman-Jouguet CJ detonation velocity. GPH is stable for all wavelengths, while SPH is unstable for certain wavelengths. The perturbation propagates at the isothermal speed of sound which is set to 1.

### Godunov's scheme

We have also performed an SPH calculation with the same initial conditions for comparison.

### A Godunov

It was initially suggested by Inutsuka 1994, 1999 and unpublished ; see also.

### Godunov

Chapter 8 deals with large-time step algorithms. This means that provided  $\alpha$  is set in the stable region, the value of  $\alpha$  is not very critical. The linear and quadratic terms are sensitive to small and large negative velocity divergence, respectively.

### A Godunov

In and , Godunov's scheme is a , suggested by in 1959, for solving A tree-code is also an essential part of GPH.



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