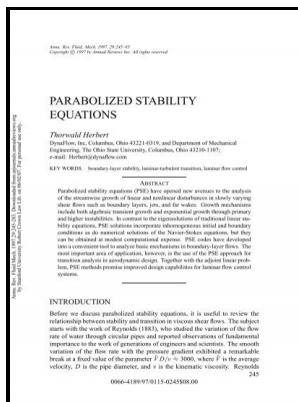


Validation of three-dimensional incompressible spatial direct numerical simulation code - a comparison with linear stability and parabolic stability equation theories for boundary-layer transition on a flat plate

Langley Research Center - parabolic equation code: Topics by Science.gov



Description: -

- Navier-Stokes equation

Boundary layer transition Validation of three-dimensional incompressible spatial direct numerical simulation code - a comparison with linear stability and parabolic stability equation theories for boundary-layer transition on a flat plate

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Active Control of Instabilities in Laminar Boundary Layers—Overview and Concept Validation

. These schemes take full account of the reduced order of the approximate equations as they behave like the SLOR for a single elliptic equation.

NUMERICAL SIMULATION OF LINEAR AND NONLINEAR DISTURBANCE EVOLUTION IN A BOUNDARY LAYER WITH COMPLIANT WALLS

This recent addition should greatly expand the capabilities of RITRACKS, notably to simulate DNA damage by both the direct and indirect effect.

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The model is a hybrid of two numerical techniques: the parabolic equation PE and fast field program FFP methods, which allow for physics-based inclusion of propagation effects and ensure the low frequency content, a factor in community impact, is predicted accurately. As the mixing layer approaches the boundary layer, the neutral curves of the boundary layer mode move to the upper left, the resulting critical Reynolds number decreases, and the growth rate of the most unstable mode increases.

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Examples of GSF codes include PFLOTRAN, FEHM, STOMP, and TOUGH2. The results agree with results predicted by solving the parabolized stability equations in regions where the nonparallelism is sufficiently weak.

Validation of three

SOSPAC is a preliminary systems analysis tool and enables the engineer to compare the areas, weights, and costs of several candidate electric and thermal power systems.

Verification and Validation Issues in Hypersonic Stability and Transition Prediction

However, when a uniform transverse flow is present, the field structure is shifted without changing its morphology.

Validation of three

A parabolic cylinder mirror is formed by stretching a flexible reflecting material between two parabolic end formers.

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