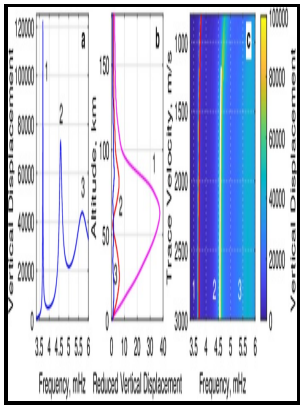
Constant-volume flame propagation - finite-sound-speed theory

U.S. Dept. of the Interior, Bureau of Mines - Pressure Effect on Flame Propagation in Porous Media



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Report of investigations - Bureau of Mines ; 8163Constant-volume flame propagation - finite-sound-speed theory
Notes: Bibliography: p. 22.
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[PDF] Development and propagation of premixed and diffusion flames in confined channels

During this stage the pressure rises with very little change in the volume.

Pressure Effect on Flame Propagation in Porous Media

Key words: flame propagation, porous media, filtration combustion, travelling combustion wave.

Experimental and numerical investigation of premixed flame propagation with distorted tulip shape in a closed duct

Obtained analytical results coincide with ones derived in the present paper on the basis of the classical Zel'dovich approach. It is also shown that there are three types of end-gas autoignition-induced detonation initiation: 1 detonation initiated directly by the pressure wave generated from the flame propagation; 2 detonation initiated directly by the pressure wave generated from other hot-spot autoignition; 3 autoignition to detonation transition based on the reactivity gradient theory. Both waves travel at different speeds in the different regions of Earth, but in general, P-waves travel faster than S-waves.

Experimental and numerical investigation of premixed flame propagation with distorted tulip shape in a closed duct

Fuel 2019, 249 , 36-44. Assume that the frequency values are accurate to two significant figures. A multi-zone chemistry mapping approach for direct numerical simulation of auto-ignition and flame propagation in a constant volume enclosure LU; LU and LU In Combustion Theory and Modelling 16 2.

Rohitashwa Kiran

DEVELOPMENT AND PROPAGATION OF PREMIXED AND DIFFUSION FLAMES IN CONFINED CHANNELS By Ashwin Hariharan This work presents the experimental and numerical investigation of premixed and diffusion flame propagation in confined channels.

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