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Based on the analytical, numerical, and experimental knowledge on the backward and forward burning wave experiments at the burner exit, two strategies were considered for the flame shaping: (i) eliminate the burning front at the burner exit, and (ii) actuate a traveling flame front which is moving towards the burner exit. Specifically, the possibility of transition from homogeneous flame to a travelling flame was investigated. The analytical and numerical results demonstrated that there exists a class of solutions, which corresponds to homogeneous flames in both spatial and temporal domains as the activation energy and the recombination parameter have appropriate values. The obtained numerical and experimental results show that the first strategy of flame shaping does not lead to the real transition; however, it generates an oscillatory flame front. The second strategy was demonstrated to be successful providing a real and stable transition from a homogeneous flame to a travelling flame. The numerical and experimental results were shown to be located in the space of parameters in the homogeneous regime and the travelling regime. The obtained numerical and experimental results were shown to be located at the line in the space of parameters in the homogeneous regime. The results show that a real transition is created by actuation of a travelling flame front, which is moving towards the burner exit as indicated by the analytical and numerical results. Such a transition was shown to be homogeneous, i.e. the flame front does not move. It was also shown to be oscillatory.

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In the numerical simulations, numerical solutions for the space-time dependent reaction profiles are generated by using the code with the fourth order Runge-Kutta method for the time integration. It is seen that the travelling wave solutions (shown in figure1) for the two cases of $f=3$, $r=25$ and for $f=2$, $r=10$ are stable (solid lines) and unstable (dotted lines) respectively. On the other hand, the numerical solutions of the same model have been reported to be unstable for both cases of $f=3$ and $f=2$ and no stable solutions have been observed (see figure1). This is a contrast to the behaviour of the proposed two-step reaction model compared to the one-step reaction model studied in[2] where it was found that for the same parameter values, as the overall reaction rate is lowered, stable solutions emerge, while for the dominant reaction, the lower overall reaction rate implies the increase of the flame speed. For these cases where the travel speeds of both reaction fronts are stable, the difference between the two models is shown in figure2, in which the profiles of the three travelling combustion waves are plotted at the point of maximum flame speeds for both reaction models. Clearly, the travelling wave solutions are stable for the one-step reaction model, while they are unstable for the two-step reaction model. Another thing to note is that the unstable solutions are not bounded by straight lines as in the case of the travelling waves of the one-step reaction model and these solutions are on the unbounded line in the plane (for the fixed-width flamelet model) or on the half-plane (for the fixed-width full-chamber model). 5ec8ef588b

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