



Flame stabilization of highly diffusive gas mixtures in porous inert media

http://www.firstlight.cn 2003-12-18

Flame propagation experiments in porous media were carried out for mixtures with di®erent Lewis-numbers in order to determine the critical P¶eclet-number, above which flame propagation is possible. The critical P¶eclet-number of 65, known from previous studies, was con⁻rmed for mixtures with Lewis-numbers above and equal to unity but for mixtures with a high di®usive mass transport to heat transport ratio, i.e. with Lewis-numbers below unity, the critical P¶eclet-number was found to lie far below this limit. The experimental results allow for a better design of flame traps for highly di®usive mixtures.

<u>存档文本</u>

我要入编|本站介绍|网站地图|京ICP证030426号|公司介绍|联系方式|我要投稿 北京雷速科技有限公司 版权所有 2003-2008 Email: leisun@firstlight.cn