

## عنوان مقاله:

CALCULATION OF EQUILIBRIUM FLAME TEMPERATURE AND COMPOSITION FOR GASEOUS FUELS  
COMBUSTION USING THE MINIMISATION OF GIBB'S FREE ENERGY METHOD

## محل انتشار:

پنجمین کنگره بین المللی مهندسی شیمی (سال: 1386)

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## خلاصه مقاله:

Mathematical formulation and modeling of combustion processes is an important tool in the understanding of such phenomena. Determination of equilibrium temperature and composition is often the first stage in calculating combustion characteristics. There are a number of techniques to carry out this calculation and in this paper minimization of Gibb's free energy is used to generate a computer code to perform this calculation and the set of equations were soled using MathCAD software. The effect of various effective parameters i.e. initial temperature, pressure, equivalence ration, and type of fuel on the equilibrium temperature and composition has been investigated .and results are presented in this work

## کلمات کلیدی:

Gibb's free energy, pollutant, combustion processes

## لینک ثابت مقاله در پایگاه سیویلیکا:

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