عنوان مقاله:

Numerical Study on the Effect of Combined Buildings on Pollution Emission using Computational Fluid Dynamics

محل انتشار:

چهارمین کنفرانس بین المللی چالش های زیست محیطی و گاهشناسی درختی (سال: 1393)

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خلاصه مقاله:

Distribution of pollutants in the air is a complex issue because of the complexity of air movement in the atmosphere and its effective factors. So by chimney design, it is necessary to consider environmental pollution issues in addition to thermodynamic and structural calculations. This paper is a numerical study on the effect of combined buildings on the pollution emissions using CFD. For this purpose, the geometric modeling is done using software GAMBIT and the model is analyzed by software FLUENT. The results are displayed by speed contours in directions X, Y, and the pattern of flow.

کلمات کلیدی:

Chimney, Pollution Emission, GAMBIT, Computational Fluid Dynamics, FLUENT