

عنوان مقاله:

SO₂ RECOVERY FROM FLUE GAS IN A FLUIDIZED BED OF COPPER OXIDE

محل انتشار:

نهمین کنگره ملی مهندسی شیمی ایران (سال: 1383)

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خلاصه مقاله:

A mathematical model for the sorption of Sulfur Dioxide from air by Copper Oxide in an aggregative fluidized bed has been proposed based on two phase flow theory. To solve the proposed model a computer program is presented. Experimental data obtained from a fluidized bed reactor were used to validate the model. Studied process variables were as below: 1-Reaction temperature, 2-Inlet gas velocity, 3-Inlet SO₂ concentration, 4-Sorbent Copper content and 5-Reactivity of the sorbent. The obtained experimental data from a pilot plant are compared with predicted values by the model. A good agreement is observed between these values

کلمات کلیدی:

SO₂ Recovery, Fluidization, Modeling

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