

Co-Pyrolysis of Bituminous Coal with Peat by Thermogravimetric Analysis

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Abstract : In this study, the pyrolysis of bituminous coal, peat and their blends formed by mixing various ratios of them were examined by thermogravimetric analysis method. Thermogravimetric analyses of peat, bituminous coal and their blends in the proportions of 25 %, 50 % and 75 % were performed at heating rate of 10 °C/min and from the room temperature until to 800 °C temperature, in a nitrogen atmosphere of 100 ml/min. Kinetic parameters for the pyrolysis process were calculated using Coats&Redfern kinetic model.

Keywords : bituminous coal, peat, pyrolysis, thermogravimetric analysis, Coats&Redfern

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