home

about

publishers

editorial boards

advisory board

for authors

call for papers

subscription

archive

news

links

contacts

authors gateway

username

•••••

submit

Are you an author in Thermal science? In preparation.

THERMAL SCIENCE International Scientific Journal

Miloš Kuburović, Slavko **Đ**urić, Aleksandar Jovović, Milenko Karan

EFFECT OF TEMPERATURE ON A FREE ENERGY AND EQUILIBRIUM CONSTANTS DURING DRY FLUE GAS DESULPHURISATION CHEMICAL REACTIONS Authors of this Paper
Related papers
Cited By
External Links

ABSTRACT

During dry flue gas desulphurisation (FGD) dry particles of reagents are inserted (injected) in the stream of flue gas, where they bond SO2. As reagents, the most often are used compounds of calcium (CaCO3, CaO or Ca(OH)2). Knowledge of free energies and equilibrium constants of chemical reactions during dry FGD is necessary for understanding of influence of flue gas temperature to course of these chemical reactions as well as to SO2 bonding from flue gases.

KEYWORDS

sulphur-dioxid, free energy, equilibrium constant, temperature

PAPER SUBMITTED: 2002-11-10 PAPER REVISED: 2002-11-15 PAPER ACCEPTED: 2002-12-15

CITATION EXPORT: view in browser or download as text file

THERMAL SCIENCE YEAR 2002, VOLUME 6, ISSUE 2, PAGES [71 - 79]

REFERENCES [view full list]

- 1. Moroz, J.W.: Air Pollution, in: Hanry, G.J., Heinke, G.W. (Eds.), Environmental Science and Engineering, Prentice Hall, New Jersey, 1996.
- 2. Kuburović, M., Petrov, A.: Environmental Protection Engineering, in Serbian, SMEITS and Faculty of Mechanical Engineering, Belgrade, 1994.
- 3. Voronjec, D., Kuburović, M.: Problems of Multicomponent Systems and Chemical Thermodynamics, in Serbian, Faculty of Mechanical Engineering, Belgrade, 1991.
- 4. Barin, I., Knacke, O., Kubarschewski, O.: Thermochemical Properties of Inorganic Substances, Berlin, Springer-Verlag, 1977.
- 5. Landolt-Boernstein: Eigenschaften der Materie in ihren Aggregatzustaenden, 4. teil, Bandteil-a, Berlin, Springer-Verlag, 1961.
- 6. Ullmans Encyklopadie der technischen Chemie 4., neubearbeitete und erweiterte Auflage,

Band 21. Schwefel bil Sprengstoffe. Verlag Chemie. Weinhem. Deerfield Beach. Florida

Basel, 1982.

7. Djurić, S.: Influence of Coal Characteristics (Sulphur and Ash Mass Contents and Ash Composition) and Temperature on Dry FGD, in Serbian, M.Sc. thesis, Faculty of Mechanical Engineering, Belgrade, 1998.

PDF VERSION [DOWNLOAD]

EFFECT OF TEMPERATURE ON A FREE ENERGY AND EQUILIBRIUM CONSTANTS DURING DRY FLUE GAS DESULPHURISATION CHEMICAL REACTIONS



Copyright © 2009 thermal science | by perfectlounge.com | xhtml |