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A review of: "J. L. Hudson and G.T. Rochelle: Flue Gas Desulfurization, American Chemical Society, Washington, D.C., 1982, 432 p., $41.95."

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BOOK REVIEW

J. L. Hudson and G. T. Rochelle: Flue Gas Desulfurization, American Chemical Society, Washington, D.C., 1982, 432 p., $41.95.

This book contains 18 papers presented at the "Symposium on Advances in Flue Gas Desulfurization" at the ACS National Meeting in Atlanta 1981. The removal of sulfur from coal prior to combustion is increasingly important, as in all countries emission standards for sulfur dioxide become more stringent. But up till now flue gas desulfurization seems to be the only commercially significant technology for abatement of sulfur dioxide from fossil fueled power plants. In spite of the effect to develop a suitable and practicable technology, all over the world flue gas desulfurization is still not a mature technology.

The 18 chapters in this volume present recent advances in the science and technology of flue gas desulfurization processes with emphasis on fundamental work in desulfurization.

1. **L. Brewer:** Thermodynamic Values for Desulfurization Processes, 39 pages, 116 references.
2. **B. R. Staples:** Reliable Data for Flue Gas Desulfurization Processes, 16 pages, 11 references.
3. **G. M. Rosenblatt:** Use of Pitzer's Equations to Estimate Strong-Electrolyte Activity Coefficients in Aqueous Flue Gas Desulfurization Processes, 18 pages, 24 references.
4. **Pui K. Chand and G. T. Rochelle:** Limestone Dissolution: Effects of pH, CO_2, and Buffers Modeled by Mass Transfer, 24 pages, 31 references.
5. **F. B. Meserole, L. Glover, and D. A. Stewart:** Studies of the Major Factors Affecting Magnesium Limestone Dissolution, 14 pages.
6. **B. Meyer, M. Rigdon, T. Burner, M. Ospina, K. Ward, and K. Koshlap:** Thermal Decomposition of Sulfite, Bisulfite, and Disulfite Solutions, 14 pages, 20 references.
7. **S. G. Chang, D. Littlejohn, and N. H. Lin:** Kinetics of Reactions in a Wet Flue Gas Simultaneous Desulfurization and Denitrification System, 26 pages, 35 references.
8. **T. G. Braga and E. Connick:** Kinetics of the Oxidation of Bisulfite Ion by Oxygen, 20 pages, 17 references.
9. **D. B. Nurmi, J. W. Overman, J. Erwin, and J. L. Hudson:** Sulfite Oxidation in Organic Acid Solutions, 18 pages, 12 references.
10. **J. Erwin, C. C. Wang, and J. L. Hudson:** A Model of Oxidation in Calcium Sulfite Slurries, 30 pages, 32 references.
11. **J. C. Terry, J. B. Jarvis, D. L. Utley, and E. E. Ellsworth:** Laboratory Investigation of Adipic Acid Degradation in Flue Gas Desulfurization Scrubbers, 22 pages, 5 references.
12. **G. T. Rochelle, T. Weems, J. Smith, and M. W. Hsiang:** Buffer Additives for Lime/Limestone Slurry Scrubbing, 24 pages, 39 references.
13. **Shih-Chung Wang and D. A. Burbank:** Adipic Acid-Enhanced Lime/Limestone Test

Results at the EPA Alkali Scrubbing Test Facility, 40 pages, 10 references.

14. **R. H. Borgwardt:** Energy Requirements for SO_2 Absorption in Limestone Scrubbers, 18 pages, 15 references.
15. **J. A. Valencia:** The Limestone Dual Alkali Process for Flue Gas Desulfurization, 24 pages, 3 references.
16. **J. T. Yeh, R. J. Demski, and J. I. Joubert:** Control of SO_2 Emissions by Dry Sorbent Injection, 20 pages, 14 references.
17. **B. W. Farnum, R. C. Timpe, and S. A. Farnum:** Characterization of Volatile Organic Components of Nahcolite and Troma, 12 pages, 15 references.
18. **T. A. Burnett and W. L. Wells:** Conceptual Design and Economics of an Improved Magnesium Oxide Flue Gas Desulfurization Process, 34 pages, 6 references.

In addition this excellent book contains a very useful index with more than 900 entries. The book is of value to all chemists and specialists who needs to keep up with the new development, literature, and current research in flue gas desulfurization processes.

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