

Gas Purification

By Arthur L Kohl, Richard Nielsen

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This massively updated and expanded fifth edition is the most complete, authoritative engineering treatment of the dehydration and gas purification processes used in industry today. Of great value to design and operations engineers, it gives practical process and equipment design descriptions, basic data, plant performance results, and other detailed information on gas purification processes and hardware. This latest edition incorporates all significant advances in the field since 1985.

You will find major new chapters on the rapidly expanding technologies of nitrogen oxide control, with discussions of regulatory requirements and available processes; absorption in physical solvents, covering single component and mixed solvent systems; and membrane permeation, with emphasis on the gas purification applications of membrane units. In addition, new sections cover areas of strong current interest, particularly liquid hydrocarbon treating, Claus plant tail gas treating, thermal oxidation of volatile organic compounds, and sulfur scavenging processes.

This volume brings you expanded coverage of alkanolamines for hydrogen sulfide and carbon dioxide removal, the removal and use of ammonia in gas purification, the use of alkaline salt solutions for acid gas removal, and the use of water to absorb gas impurities. The basic technologies and all significant advances in the following areas are thoroughly described: sulfur dioxide removal and recovery processes, processes for converting hydrogen sulfide to sulfur, liquid phase oxidation processes for hydrogen sulfide removal, the absorption of water vapor by dehydrating solutions, gas dehydration and purification by adsorption, and the catalytic and thermal conversion of gas impurities.

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Gas Purification By Arthur L Kohl, Richard Nielsen Bibliography

- Sales Rank: #2293387 in eBooks
- Published on: 1997-08-28
- Released on: 1997-08-28
- Format: Kindle eBook

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Editorial Review

Review
The 16 precisely written chapters, all well illustrated and well referenced, deal with everything relevant to gas purification....This book would be an excellent reference source for anyone interested in gas purification... (Chemistry & Industry)
...recommended for academic and technical libraries for serious researchers in chemical engineering. (E-STREAMS, www.e-streams.com)

About the Author
Arthur Kohl is a program manager in the Rocketdyne Division of Rockwell International. He previously worked for the Fluor Corporation, where he was Chief Chemical Engineer in the Research Division. He has been awarded many honors for contributions to chemical engineering. He is a member of the American Institute of Chemical Engineers and is listed in American Men of Science and Who's Who in the West. He has been awarded more than 25 patents in gas purification and other chemical engineering fields.

Richard Nielsen is a Director of Process Engineering at Fluor Daniel's Irvine, California office. His 20 years with Fluor Daniel include work in gas treating, gas processing, and refining. He holds a BS degree from Massachusetts Institute of Technology, an MS degree from the University of Southern California, and an MBA degree from the University of California, Irvine.

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