

Ammonia. - Edited by A.V. Slack [and] G. Russell James.

M. Dekker - Ammonia Part by Slack James Russell



Description: -

AmmoniaAmmonia. - Edited by A.V. Slack [and] G. Russell James.

Report of investigations (United States. Bureau of Mines) -- 7832

Occasional paper (University of the West Indies (Cave Hill,

Barbados). Institute of Social and Economic Research) -- no. 2

Occasional paper / Institute of Social and Economic Research,

University of the West Indies, Cave Hill, Barbados -- no. 2

Atlasim shel 'arim be-Yisra'el -- 4

Fertilizer science and technology series -- v. 2Ammonia. - Edited by

A.V. Slack [and] G. Russell James.

Notes: Includes bibliographical references.

This edition was published in 1973



Filesize: 59.43 MB

Tags: #Ammonia #Synthesis: #Commercial #Practice

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Google has not performed a legal analysis and makes no representation as to the accuracy of the status listed.

Numerical calculation of the simultaneous absorption of two gases with reversible chemical reactions

After this heat exchange, the effluent from the first catalytic bed is passed to the second catalytic bed where further ammonia conversion is accomplished. As used herein, the term purge gas refers to any gaseous stream or streams withdrawn from ammonia synthesis reactor effluent streams, before or after combining with fresh makeup feed gas and before or after any cooling, liquefaction, compression, pressure reduction, or vapor-liquid separation step.

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More specifically, the present invention relates to a process for synthesis of ammonia which employs a heat exchange between only the effluent of the first pass of syngas over a catalyst bed and at least a portion of the fresh syngas. The control system described above and shown on Figure 1 accomplishes this.

Ammonia (October 1973 edition)

The refrigerant ammonia vapor leaving tube bundle 12 passes through a tube channel 25 and leaves the system through a conduit 26. Bypass valves of this general construction are well known in the art, and provide additional economy by eliminating the need for an extra line. These concentration values could be correlated with experimental data.

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Russell James 1977 , the disclosure of which is specifically incorporated herein by reference. The gas then flows upward through a perforated plate 20 having perforations sized and spaced to distribute the gas with approximate uniformity over the length and breadth of vessel 11.

EP0450896A1

The syngas is initially preheated in a heat exchanger by the effluent from the third catalytic bed after it has been used in a high temperature heat sink.

Ammonia (October 1973 edition)

First, the rate of the scrubbing water is controlled in relation to the purge gas rate, the ammonia concentration in the purge gas, and the total plant product rate, so that the water content of the total plant product will fall within the required range. Some of the sensible heat content of the water entering through conduit 1 is transferred to the rising gas in the column, thereby cooling the water, but providing only a small part of the heat which increases the gas temperature. A level controller 16 operates a valve 17 to control the discharge of liquid through a conduit 18 to maintain a liquid level in surge chamber 15.

Numerical calculation of the simultaneous absorption of two gases with reversible chemical reactions

Russell James Book Bib ID 462384 Format Book , Author Description New York, M. Some computational results are given, along with a schematic diagram of a laboratory apparatus. The process of the invention is affected by the presence of such diluents in essentially the same manner as alternate methods for carrying out the synthesis would be so affected.

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