

1. These are the following absorption processes at elevated temperature:

✓ a. Hot potassium carbonate (Benfield) process

✓ b. Catacarb process

1/2 c. Flexsorb HP process

↓
or SE

2. These are the following absorption processes at ambient temperature:

~~✓~~ a. Seaboard process

~~✓~~ b. Tripotassium phosphate process

~~to~~ c. ~~Sodium phenolate process~~

← caustic wash process

3. Introduction: 2 full pages, include general idea about the subject, different approaches, and the focus of this article.

حکایات سے اسرار اور تفسیر اللغات
ان کے بعد اللغات مشکل علم
دا انکم سے المیتور 6 اولیہ ص

(3)

4. Literature survey: 8 full pages, list in suitable order and format all studies regarding alkaline salt solutions for acid gas removal at elevated and ambient temperatures for the previously mentioned processes (Hot potassium carbonate (Benfield) process, Catacarb process, Flexsorb HP process, Seaboard process, Tripotassium phosphate process and Sodium phenolate process).

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الکتبہ ضنوا

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5. Theory and reaction mechanism of absorption: 4 full pages, include all the reactions involved and the acceptable mechanisms for absorption for the cases of interest.

Phase equilibria
equilibrium
Thermodynamics
rxn

may include
mass trans

6. Processes description: 6 full pages, include all processes description or experiments for all (as mentioned in item 4). Compare all the processes according to the main units, catalysts, conditions etc. used.

hot plant
actual plant

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7. Results and discussion: 6 full pages, discuss the results and compare between the three different processes which are specified for the

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absorption at elevated temperature. Discuss the results and compare between the three different processes which are specified for the absorption at ambient temperature. Compare between elevated and ambient temperatures processes.

8. Conclusions: 1 full page as points, mention your main conclusions.

9. References: minimum of 24 references, mostly from text books, patents, published articles, industrial reports, scientific reports,etc.

10. Tables: each table in separate page, it has to be very clear, adequate size, in same order as in the text.

11. Figures: each figure in separate page, it has to be very clear, adequate size, in same order as in the text.