

CHEM-E6165 UNIT PROCESSES IN PYROMETALLURGY

ONLINE-EXAM 1.3.2021, 13:00-17:00

The use of course material in the exam is allowed.

Name:

Student no.

Questions (Write your answer below the questions)

1. How to enhance gas-solid reactions in pyrometallurgical processes? Consider different processes and rate controlling steps.

2. Explain the different roles of slags in pyrometallurgical unit processes.

3. Explain wetting/wettability in pyrometallurgy and how it affects unit processes?

4. Describe the aspects you should consider when planning/performing experiments using thermogravimetric analysis and the information that can be obtained from such studies.

5. How do gases (hydrogen and nitrogen) enter steel melt and how to remove them?