Chemistry Formula Sheet

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CHAPTER 21

General Principles and Processes of Isolation of Metals

Concentration and extraction

froth flotation (sulphide ores); leaching (Al, Au, Ag); roasting (sulphides); calcination (carbonates)

ELLINGHAM DIAGRAM

a metal reduces the oxide of any metal above it; $\Delta G^\circ = \Delta H^\circ - T\Delta S^\circ$

Refining

electrolytic (Cu); zone refining (Si, Ge); Mond (Ni via $Ni(CO)_4$); van Arkel (Ti, Zr via iodides)

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