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encompasses both the science and the technology of metals; that is, the way in which science is applied to the production of metals, and the engineering of metal components used ...

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[Physical chemistry - Wikipedia](#)

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Thermodynamic Principles of Metallurgy: $\Delta G = \Delta H - TS$. or $\Delta G_0 = -RT \ln K$. An element A can reduce element B if ΔG value for oxidation of A to AO is lower than the ΔG value for oxidation of B to BO . i.e. $\Delta G (A \rightarrow AO) < \Delta G (B \rightarrow BO)$ Extraction of Aluminium: Important Ores of Aluminium: Bauxite : $Al_2O_3 \cdot 2H_2O$ Cryolite: Na_3AlF_6 . Feldspar: K ...

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“First-Principles Assessment of the Reactions of Boric Acid on NiO(001) and ZrO₂(100) Surfaces”, Journal of Physical Chemistry C, vol. 116. pp. 10113–10119 , 2012 . J. C. Grossman, “3D solar

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