

Download Inorganic Chemistry Catherine E Housecroft Solutions Manual

Extraction Chromite, FeCr_2O_4 , is the most commercially useful ore, and is extensively used for extraction of chromium. Chromium is produced in two forms: (Chemistry of the Elements, Greenwood and Earnshaw, Chapter 23). (a) Ferrochrome by the reduction of chromite with coke in an electric arc furnace. An acid dissociation constant, K_a , (also known as acidity constant, or acid-ionization constant) is a quantitative measure of the strength of an acid in solution. It is the equilibrium constant for a chemical reaction known as dissociation in the context of acid–base reactions. $\text{HA} \rightleftharpoons \text{A}^- + \text{H}^+$. The chemical species HA, A^- , and H^+ are said to be in equilibrium when their concentrations ... $K_a = \frac{[\text{A}^-][\text{H}^+]}{[\text{HA}]}$. The alkali metals are a group (column) in the periodic table consisting of the chemical elements lithium (Li), sodium (Na), potassium (K), rubidium (Rb), caesium (Cs), and francium (Fr). This group lies in the s-block of the periodic table of elements as all alkali metals have their outermost electron in an s-orbital: this shared electron configuration results in their having very similar ...