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For the use of this term in mathematics and physics, see phase space.. A phase diagram in physical chemistry, engineering, mineralogy, and materials science is a type of chart used to show conditions (pressure, temperature, volume, etc.) at which thermodynamically distinct phases (such as solid, liquid or gaseous states) occur and coexist at equilibrium

### **Phase diagram - Wikipedia**

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### **Fluid Phase Equilibria - Journal - Elsevier**

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Comparison of phase equilibria between FactSage predictions and experimental results in titanium oxide-containing system

### **Calphad | ScienceDirect.com**

UNIQUAC (universal quasichemical) is an activity coefficient model used in description of phase equilibria. The model is a so-called lattice model and has been derived from a first order approximation of interacting molecule surfaces in statistical thermodynamics.

### **UNIQUAC - Wikipedia**

The design of industrial processes requires reliable thermodynamic data. CALPHAD (Computer Coupling of Phase Diagrams and Thermochemistry) aims to...

### **Calphad - Journal - Elsevier**

Abstract - Experimental liquid-liquid equilibria of the water-acetic acid-butyl acetate system were studied at temperatures of  $298.15 \pm 0.20$ ,  $303.15 \pm 0.20$  and  $308.15 \pm 0.20$  K. Complete phase diagrams were obtained by determining solubility and tie-line data. The reliability of the experimental tie ...

### **Liquid-Liquid equilibria of the water-acetic acid-butyl**

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### **Chemistry - 101science.com**

15.2. ION EXCHANGE EQUILIBRIA 497 TABLE 15.2-(continued) (b) Typical Properties of Union Carbide

Type X Molecular Sieves Ncniiiiinl piirv hilk I Irill Id IGpiililiri iiiii Basic diaiiieter, density, adsorption ( $\mu$ ), H<sub>2</sub>O capacity, Molecules Molecules type angstroms Available form lb/ft<sup>3</sup> Btdh H<sub>2</sub>O %wt adsorbed excluded Applications 3A 3 Powder 30 1800 23 Molecules with an Molecules with The ...

### **ADSORPTION AND ION EXCHANGE S preferential attraction for**

Thermodynamics Classical  $\hat{\cdot}$  Statistical  $\hat{\cdot}$  Chemical Equilibrium / Non-equilibrium Thermofluids Zeroth  $\hat{\cdot}$  First  $\hat{\cdot}$  Second  $\hat{\cdot}$  Third State: Equation of state Ideal gas  $\hat{\cdot}$  Real gas Phase of matter  $\hat{\cdot}$  Equilibrium Control volume  $\hat{\cdot}$  Instruments Processes: Isobaric  $\hat{\cdot}$  Isochoric  $\hat{\cdot}$  Isothermal Adiabatic  $\hat{\cdot}$  Isentropic  $\hat{\cdot}$  Isenthalpic Quasistatic  $\hat{\cdot}$  Polytropic Free expansion

### **Equation of state - che.ncku.edu.tw**

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### **Chemistry CP - Dr. VanderVeen**

Atom Probe Tomography (APT) is a state-of-the-art analytical method that allows for three-dimensional elemental mapping with near atomic resolution.

### **APT, tomographic atom probe, atom probe tomography, steel**

Two organolead halide perovskite nanocrystals, CH<sub>3</sub>NH<sub>3</sub>PbBr<sub>3</sub> and CH<sub>3</sub>NH<sub>3</sub>PbI<sub>3</sub>, were found to efficiently sensitize TiO<sub>2</sub> for visible-light conversion in photoelectrochemical cells. When self-assembled on mesoporous TiO<sub>2</sub> films, the nanocrystalline perovskites exhibit strong band-gap absorptions as semiconductors. The CH<sub>3</sub>NH<sub>3</sub>PbI<sub>3</sub>-based photocell with spectral sensitivity of up to 800 nm yielded a ...

### **Organometal Halide Perovskites as Visible-Light**

The phase diagram showing the domains of stability of iron oxides according to temperature and oxygen partial pressure is presented in Fig. 1 [].The general trend is toward lowering the oxidation state of iron with lower oxygen partial pressure and with higher temperature.

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