



MathsNET

A joined up approach to
teaching and learning
mathematics

Introduction to Gibbs Phase Rule

- What is the conjugate variable to volume? Is volume an intensive thermodynamic variable or extensive thermodynamic variable? What about its conjugate variable is it intensive?
- Is temperature an extensive or intensive variable? What thermodynamic variable is conjugate to temperature?
- Is the number of atoms in a phase an intensive or extensive thermodynamic variable. What thermodynamic variable is conjugate to number of atoms?
- How do the intensive and extensive thermodynamic variables behave in a system when it is at equilibrium.