



An Introduction to General Thermodynamics; An Elementary Treatise on the Fundamental Principles and Their Simpler Applications (Paperback)

By Henry Augustus Perkins

Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****. This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1912 Excerpt: .that there cannot be more than three phases, because this would mean a negative variance, which is absurd. Water at the triple point is a good illustration of the first case, for then there is one component existing simultaneously in the three phases: ice, water, and steam. Water and saturated steam in equilibrium illustrate the second case, and dry superheated steam, or a gas, represents the third case. Now let $n = 2$. Four cases are now possible: $(2 + 2) - 4 = 0$ $(2 + 2) - 3 = 1$ $(2 + 2) - 2 = 2$ $(2 + 2) - 1 = 3$ The first case is exhibited by two kinds of crystals of the same chemical constitution in equilibrium with the liquid and vapor of the same substance. The second case is shown by an ordinary solution in which part of the dissolved body exists in crystalline form, and part...

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