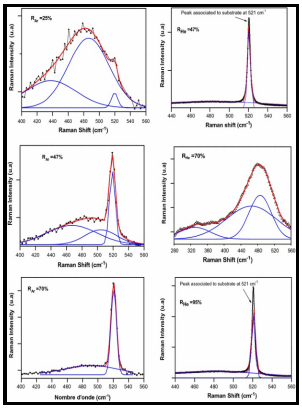
Raman spectra of hydrogen in a hydrogen helium and a hydrogen-argon mixture at high pressures

- - Molecular hydrogen in mantle minerals



Description: -
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-Raman spectra of hydrogen in a hydrogen helium and a hydrogen-argon mixture at high pressures
Notes: Thesis (M.A.), Dept. of Physics, University of Toronto
This edition was published in 1960

Filesize: 9.86 MB

Tags: #Solubility #of #hydrogen #in #ice #Ih #along #the #ice #melting #curve

Andreas Hermann, Edinburgh

An important aspect that limits and mines the overall efficiency relies on the boil-off rate of hydrogen from a liquid storage vessel; this is due to heat leaks, that depend on the geometry of the tank size and shape and on the thermal insulation applied.

Raman spectra for hydrogen hydrate under high pressure: Intermolecular interactions in filled ice Ic structure

Fluid Phase Equilibria 2016, 413 , 65-70.

Pressure

Similar fO 2 buffering techniques, frequently adopted in experimental studies, have been recently used in H-annealing studies of melts and olivine e. Quantification of H 2 in these samples is not easy; methods such as ion microprobe SIMS are unsuitable, as SIMS can only measure the total H content, including the contribution from OH. It is known from previous studies on glasses that the interaction with the surrounding silicate matrix can produce an induced dipole in the H 2 molecule, which makes it slightly infrared active Shelby, 1994; Schmidt and Holtz, 1998; Hirschmann et al.

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However, highly reducing conditions may prevail deep in the modern Earth Frost and McCammon, 2008 , as well as on the Moon and on Mars Wadhwa, 2008. The characteristic temperatures for hydrogen critical temperature, boiling point and melting temperature are quite low compared to other elements 32.

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