

Helium

Developments in Geochemistry, Volume 3: Helium Isotopes in Nature presents the isotopic investigations of noble gases. This book describes the origin, the history, and the contemporary distribution of isotopes of helium. Organized into 11 chapters, this volume begins with an overview of mass-spectrometric methods and measurements of the helium isotope abundance. This text then discusses the methods of collecting various terrestrial samples as well as the apparatus for helium extraction, volumetric measurements, and purification. Other chapters consider the isotope composition of primordial, radiogenic, and spallogenic light noble gases. This book discusses as well the origin and distribution of helium isotopes in meteorites, in the Earth's mantle, the crust and ocean, and in the atmosphere. The final chapter deals with the scientific and applied problems that can be resolved to the progress in helium isotope geochemistry. This book is a valuable resource for scientists. Research workers and students interested in the geochemistry of helium will also find this book useful.

Notes on units, physical constants, and notation

Liquid Helium Technology Proceedings of the International Institute of Refrigeration, Commission 1, Boulder (U.S.A.), 1966A Supplement to "Helium." Effects of Air Contamination in a Helium Tunnel High Efficiency Pump for Space Helium Transfer Helium in Ground Water and Soil Gas in the Vicinity of Bush Dome Reservoir, Cliffside Field, Potter County, Tex The Coefficient of Viscosity of Helium and the Coefficients of Slip of Helium and Oxygen by the Constant Deflection Method ... Leakage Predictions for Rayleigh-step, Helium-purge Seals The Anomalous Scattering of Neutrons in Helium Helium-4 Excited State Spectroscopy on Helium Using a Color Center Laser Microwave Determination of Helium Fine Structure Near-infrared Nonmetal Emission from a Helium Microwave-induced Plasma, a Fiber-optic Absorption Cell for Remote On-line Measurements, and Vibrationally Induced Desorption Helium-Three and Helium-Four Springer

Calculated spectral line profiles (intensity distributions) of the helium triplet diffuse series were obtained using the quasi-static approximation for ions and electrons. In these calculations, Doppler broadening, although negligible in most of the cases, was included as a device to avoid singularities. Plots and tabulations of the calculated profiles are presented, in addition to a discussion of the computational procedure and the validity of the calculations.

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