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Descrizione fisica	1 online resource
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Note generali	Bibliographic Level Mode of Issuance: Monograph
Sommario/riassunto	Summary form only given. A complete record of the panel discussion was not made available for publication as part of the conference proceedings. The expert panelists will present their views and experiences covering questions including, 1. What are the new individual roles engaged in building and maintaining pervasive spaces, and how are they inter-related? What are the boundaries of responsibilities for each role? 2. Developing and deploying a pervasive space is a multi-disciplined process where knowledge from various domains intersects. How can individual roles efficiently contribute their expertise and smoothly integrate their work to create a pervasive space? 3. How does system design and architecture enable effective decoupling of these roles? 4. Who has the business incentives to invest in the standards, open source, and product implementations that support the new roles and system architectures needed to support the full life cycle of pervasive spaces?.

3. Record Nr.	UNINA9910959668003321
Titolo	Helium : characteristics, compounds, and applications / / Lucas A. Becker, editor
Pubbl/distr/stampa	New York, : Nova Science Publishers, c2011
ISBN	1-61761-373-8
Edizione	[1st ed.]
Descrizione fisica	1 online resource (251 p.)
Collana	Chemistry research and applications Physics research and technology
Altri autori (Persone)	BeckerLucas A
Disciplina	546/.751
Soggetti	Helium Helium - Electric properties
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Intro -- HELIUM: CHARACTERISTICS, COMPOUNDS, AND APPLICATIONS -- HELIUM: CHARACTERISTICS, COMPOUNDS, AND APPLICATIONS -- CONTENTS -- PREFACE -- HELIUM IN THE TERRESTRIAL UPPER ATMOSPHERE: SPATIAL AND TEMPORAL DISTRIBUTION OF ITS EMISSION IN THE INFRARED SPECTRAL REGION -- ABSTRACT -- 1. INTRODUCTION -- 2. THE MAIN MECHANISM OF EXCITATION OF METASTABLE ORTHOHELIUM ATOMS -- 3. PROCESSES OF EXCITATION AND DEACTIVATION OF THE METASTABLE HELIUM ATOMS -- 4. THE ALTITUDINAL DISTRIBUTION OF THE METASTABLE ORTHOHELIUM ATOMS -- 5. PROCESSES OF EXCITATION OF THE PARAHELIUM ATOMS -- 6. DEPENDENCE OF THE SOLAR UV ATTENUATION DEGREE ON THE SOLAR ZENITH ANGLE -- 7. METHOD OF THE INTENSITY MEASUREMENTS -- 8. THE RESULTS OF THE INTENSITY MEASUREMENTS -- 1. Nighttime Variations -- 2. Variations with the Moon Phase Age Period -- 3. Seasonal Variations -- 4. Dependence on Solar Activity -- 5. Dependence on Geomagnetic Disturbance -- 9. INTERFEROMETRIC STUDIES OF THE TEMPERATURE OF THERMOSPHERE -- 10. EXPERIMENTAL INTERFEROMETRIC MEASUREMENTS OF TEMPERATURE -- 11. ABOUT RELATION BETWEEN DOPPLER AND KINETIC TEMPERATURES OF THE UPPER ATMOSPHERE -- 12. VARIATIONS OF THE HELIUM EMISSION INTENISY AS A FUNCTION OF THE SOLAR ZENITH ANGLE FOR VARIOUS THERMOSPHERIC TEMPERATURES -- CONCLUSION --

REFERENCES -- HELIUM IN METALS-DIFFUSION AND EQUATION OF STATE -- ABSTRACT -- 1. HELIUM DIFFUSION AND BUBBLES FORMATION IN ALUMINUM -- 1.1. Introduction -- 1.2. Alloy Preparation -- 1.3. Experimental Results -- 1.3.1. In situ observation of bubble formation and growth -- 1.3.2. Bubble formation in bulk aluminum -- 1.3.3. Number of helium atoms in a bubble -- 1.4. Theoretical Estimation of Helium Bubble Formation by Diffusion in Aluminum: Bulk Heating and Hot Stage Heating -- 1.4.1. Bubble formation during bulk heating. 1.4.2. Bubble formation during heating in the hot stage TEM holder -- 1.4.5. Conclusions -- 2. PREFERRED HELIUM MIGRATION DIRECTION IN ALUMINUM -- 2.1. Experimental Results -- 2.2. Analysis and Discussion -- 2.3. Conclusions -- 3. EQUATION OF STATE FOR ALUMINUM CONTAINING HELIUM BUBBLES -- 3.1. Introduction -- 3.2. Theoretical Model -- 3.2.1. General framework -- 3.2.2. Helium EOS -- 3.2.2.1. Carnahan-starling EOS -- 3.2.2.2. Trinkaus EOS -- 3.2.3. Hugoniot calculation -- 3.3. Results and Discussion -- 3.3.1. EOS -- 3.3.2. Hugoniot curves -- 3.4. Conclusions -- REFERENCES -- RELEASE OF MANTLE HELIUM AND ITS TECTONIC IMPLICATIONS -- ABSTRACT -- 1. INTRODUCTION -- 2. RELEASE OF MANTLE HELIUM FROM THE MESOZOIC, CRYSTALLINE IIDE MOUNTAINS -- 3. RELEASE OF MANTLE HELIUM FROM THE SOURCE REGION OF THE 2000 WESTERN TOTTORI EARTHQUAKE -- 4. VARIATIONS IN $3\text{He}/4\text{He}$ RATIOS ALONG THE ISTL AND ITS TECTONIC IMPLICATIONS -- 4.1. Geological Background -- 4.2. Analytical Procedures -- 4.3. Chemical and Isotopic Composition -- 4.4. Geographic Distribution of $3\text{He}/4\text{He}$ Ratios and Their Relationship to Tectonics -- CONCLUDING REMARKS -- ACKNOWLEDGMENTS -- REFERENCES -- ELASTIC AND INELASTIC PROCESSES WITH SPIN-POLARIZED METASTABLE HELIUM ATOMS IN GAS DISCHARGE -- ABSTRACT -- INTRODUCTION -- THE THEORY OF SPIN EXCHANGE -- FREQUENCY SHIFTS DUE TO SPIN EXCHANGE WITH CHEMI-IONIZATION -- KINETICS OF OPTICAL ORIENTATION OF METASTABLE ($23\text{S}1$) HELIUM ATOMS -- a. Interaction between Particles with Electron Spins $S=1/2$ and $S=1$ -- B. Interactions between Particles with Electron Spins $S=1$ and $S=1$ -- EXPERIMENT -- A. Magnetic Resonance in a System of Optically Polarized Metastable Helium Atoms and Atoms with Electron Spin $S=1/2$ in Ground State -- B. Magnetic Resonance in a System of Optically Polarized Particles with Electron Spins $S=1$ [$(\text{He}(23\text{s}1) - \text{O}_2(3 - \text{G}))$] -- INTERACTION POTENTIALS. CALCULATIONS OF THE SPIN EXCHANGE AND CHEMIIONIZATION CROSS SECTIONS -- CONCLUSION -- ACKNOWLEDGMENTS -- REFERENCES -- EFFECT OF HE PLASMA TREATMENT ON THE REACTIVITY OF POROUS METHYL-DOPED SILICON DIOXIDE LAYERS -- 1. ABSTRACT -- 2. INTRODUCTION -- 3. EXPERIMENTAL -- 3.1. Preliminary treatment -- 3.2. Etching -- 3.3. Methods -- 3.4. Materials -- 4. RESULTS AND DISCUSSION -- 4.1. Molecular structure -- 4.2. Modeling -- 4.3. Comparison of modeling results with experiment and model verification. -- CONCLUSION -- REFERENCES -- LIGHTER THAN AIR VEHICLES: AUTONOMOUS AIRSHIPS FOR BRIDGE MONITORING -- ABSTRACT -- 1. INTRODUCTION -- 2. BRIDGE MONITORING FLIGHT SIMULATOR -- 3. MODELING -- 3.1. Kinematic Modeling -- 3.2. Mass Characteristics -- 3.3. Six Degrees of Freedom Modeling -- 3.3.1. Rigid body mechanics -- 3.3.2. Gravity and lift forces and moments -- 3.3.3. Propulsive forces -- 3.3.4. Aerodynamic forces and moments -- a - Stationary coefficients -- b - Nonstationary coefficients -- 3.4. Three Degrees of Freedom Dynamic Modeling -- 4. TRIM TRAJECTORIES -- 4.1. Trim Conditions Determination Algorithm -- Performance index -- Constraints -- Under-actuation constraints -- Flight envelope

constraints -- Trajectory geometry -- Constraints due to the actuators limitations -- 4.2 Trajectory Planner -- A. Problem formulation -- B. Extremal curves -- Extremal trajectories -- Algorithm description -- Case of backward right turn -- Case of a forward right turn -- 5. FLIGHT CONTROL METHODOLOGY -- CONCLUSIONS -- REFERENCES -- FIRST-PRINCIPLES STUDY OF HELIUM BEHAVIOR IN NUCLEAR FUEL MATERIALS -- ABSTRACT -- 1. INTRODUCTION -- 2. COMPUTATIONAL METHODOLOGY -- 3. RESULTS AND DISCUSSION -- 3.1. Trapping and Diffusion Behavior of a Single He Atom in the UO₂ Lattice -- 3.2. Atomistic Modeling of He Nucleation -- 3.3. He Behavior in Other Actinide Dioxides -- CONCLUSION. REFERENCES -- HELIUM THERMODYNAMICS, ANALYTICAL MODEL -- Abstract -- 1. Introduction -- 2. Development of fluid EOS concept and formulation -- 2.1. Cubic EOS -- 2.2. Virial EOS -- 2.3. Helmholtz energy (fundamental) EOS -- 3. Main Features of the Presented Helium Model -- 4. Intermolecular Potential Energy -- 4.1. Double Yukawa potential -- 5. Fundamental Helmholtz free energy equation -- 5.1. Hard sphere free energy -- 5.2. Attraction free energy -- 5.3. Quantum free energy -- 6. Thermodynamic properties -- 6.1. Analytical compressibility factors -- 6.2. Analytical explicit pressure EOS -- 7. Helium at temperature below 40 K -- 8. Conclusion -- 9. Acknowledgments -- References -- COMBINING HELIUM WITH ANTIMATTER: ANTIPROTONIC HELIUM AND ITS APPLICATIONS -- 1. Introduction -- 2. Historical Perspective -- 2.1. Early Observations -- 2.2. Metastability Rediscovered -- 2.3. Discovery of Antiprotonic Helium -- 2.4. More Recent Results -- 3. Delayed Annihilation Time Spectra -- 3.1. Experimental Method -- 3.2. Results -- 4. Properties of Antiprotonic Helium -- 4.1. Antiprotonic Helium Formation: Energy Levels -- 4.2. Antiprotonic Helium Evolution: Decay Processes and Rates -- 4.3. Molecular Approach -- 5. Other Important Effects -- 5.1. Isotope Effect -- 5.2. Quenching by Contaminants -- 6. Laser Spectroscopy -- 6.1. Experimental Method -- 6.2. Improvements and Further Transitions Discovered -- 6.3. Favoured and Unfavoured Transitions -- 6.4. Double Resonance Method -- 6.5. Pressure Shift and Broadening -- 6.6. HAIR Transitions -- 7. Calculation of Transition Frequencies -- 7.1. First Calculations -- 7.2. Current Situation -- 8. Further Experimental Improvements -- 8.1. New Antiproton Facility -- 8.2. Radio Frequency Quadrupole Decelerator -- 8.3. Frequency Comb -- 8.4. Two Photon Spectroscopy -- 8.5. Fine and Hyperfine Structure -- 9. Comparison between Data and Calculations: Antiproton Mass and CPT Test -- 10. Conclusions -- Acknowledgments -- References -- INDEX.

Sommario/riassunto

Presents research data in the study of helium, including helium in the terrestrial upper atmosphere; an experimental and analytical investigation of helium in metals diffusion; the release of mantle helium and its tectonic implications; and, the study of helium behavior in nuclear fuel materials.
