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	Neutron Capture; 3. Summary; References Soft X-Ray Reflection and Strong and Weak Field Limit Determination in Narrow-Line Seyfert 1 Galaxies Th. Boller1. Introduction; 2. The RGS NLS1 Sample; 3. The Spectral Model; 4. 1H 0707-495; 4.1. RGS relativistic reflection model spectral fitting; 4.2. Comparison with EPIC pn spectral fitting results; 4.3. Additional soft X-ray line emission; 4.4. Model component properties and fitting results; 5. Ark 564; 5.1. RGS relativistic reflection model fitting; 6. Remaining Objects; 7. Summary; Acknowledgments; References A 100% Renewable Power System for Europe - Let the Weather and Physics Decide! M. Greiner1. Introduction; 2. Seasonal Optimal Mix; 3. Seasonal Storage Needs; 4. Outlook; References; Happy Island L. McLerran; 1. Quarkyonic Matter; 2. Chiral Symmetry Breaking and the Emergence of Happy Island; 3. Experimental Hints for Happy Island; 4. Summary; Acknowledgments; References; Signatures of the Strongly Interacting QGP in Relativistic Heavy-Ion Collisions E. L Bratkovskaya, et al.; 1. Introduction; 2. Hadronization in PHSD; 3. Application to Nucleus-Nucleus Collisions; 4. Summary; References Microscopic Origin of the Shear Relaxation Time in Causal Dissipative Fluid Dynamics G. S. Denicol, H. Niemi, J. Noronha and D. H. Rischke1. Introduction; 2. Definitions and Power-Counting Scheme; 3. Gradient Expansion; 4. Computing the Relaxation Time from the Poles of G R; 5. The Role of the Analytical Structure of G R (!); 6. Application: The Linearized Boltzmann Equation; 7. Conclusion; References; Production of Heavy and Superheavy Nuclei in Explosive Processes I. N. Mishustin; Preface; 1. Introduction; 2. Statistical Description of Supernova Matter 3. Nuclear Composition of Supernova Matter
Sommario/riassunto	This book focus on recent advances in nuclear physics and bring together experimentalists and theorists. Topics covered include neutron rich and superheavy nuclei, supernova and r-process nuclei, nuclear symmetry energy and equation of state, neutron stars, FAIR and future Dubna research, other related areas.