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Altri autori (Persone)	OganessianYu. Ts ZagrebaevV. I (Valerii I.)
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	CONTENTS ; Preface ; Aspects of Fusion Fission and Cluster Radioactivity ; Current Problems of Superheavy Nuclei ; 1 Introduction ; 2 Two regions of increased stability ; 3 Problem of deformed superheavy nuclei ; Acknowledgments ; References Structure of Super-Heavy Nuclei in Mean-Field Models 1 Introduction ; 2 Parametrizations ; 3 Quality of the Parametrizations ; 4 The Role of the Spin-Orbit Splitting ; Acknowledgments ; References ; Superheavy Nuclei in Deformed Mean-Field Calculations ; 1 Introduction 2 The Models 3 Deformed Shell Closures

; 4 Ground State Deformations ; 5 Qa-Values and
 Estimated Lifetimes ; 6 Shell Structure in a
 Point-Coupling Model ; 7 Conclusions
 ; Acknowledgments ; References ; Extrapolation
 of Mean-Field Models to Superheavy Nuclei
 ; 1 Introduction
 2 Models 3 Nuclear exotica in superheavy nuclei
 ; 4 Fits and Parameterizations ; 5 Predictive
 Power ; 6 Conclusions ; Acknowledgments
 ; References ; The Synthesis of Superheavy Nuclei in the
 48Ca+244Pu Reaction ; 1
 Introduction ; 2 Experimental Technique
 ; 3 Experimental Results
 4 Discussion 5 Addendum ; 6 Acknowledgements
 ; References ; Experiments on the Synthesis of Superheavy
 Elements with 48Ca Beams at the Separator VASSILISSA
 ; Introduction ; Experiment ; Results ;
 Discussion ; Conclusion ; Acknowledgments
 ; References
 Fusion-Fission of Superheavy Nuclei at Low Excitation Energies

Sommario/riassunto

This book deals with the properties and fusion dynamics of very heavy nuclei. It contains the latest experimental results on the formation and fission of superheavy nuclei and on the near-barrier fusion of light exotic nuclei, along with the different theoretical approaches to the description of fusion dynamics and microscopic properties of superheavy nuclei. The book also discusses nuclear collective dynamics and expectations from the use of accelerated beams of radioactive nuclei in fusion reactions.
Contents:

- Aspects of Fusion, Fission and Cluster Radioactivity

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2. Record Nr.	UNINA990004881820403321
Autore	Dittmar, Norbert <1943- >
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Pubbl/distr/stampa	Frankfurt am Main, : Athenäum, c1973
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