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| 1. Record Nr.           | UNINA9910783643003321                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Autore                  | Shuryak E. V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Titolo                  | The QCD vacuum, hadrons and superdense matter [[electronic resource] /] / Edward V. Shuryak                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| Edizione                | [2nd ed.]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Descrizione fisica      | 1 online resource (637 p.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Collana                 | World Scientific lecture notes in physics ; ; v. 71                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Classificazione         | 33.52                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Disciplina              | 539.7548                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Soggetti                | Quantum chromodynamics<br>Hadrons<br>Nuclear matter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Lingua di pubblicazione | Inglese                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| Note generali           | Description based upon print version of record.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Nota di bibliografia    | Includes bibliographical references (p. 587-615) and index.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Nota di contenuto       | Contents; Preface; Chapter 1 Theoretical Introduction; Chapter 2 Phenomenology of the QCD Vacuum; Chapter 3 Euclidean Theory of Tunneling: From Quantum Mechanics to Gauge Theories; Chapter 4 Instanton Ensemble in QCD; Chapter 5 Lattice QCD; Chapter 6 QCD Correlation Functions; Chapter 7 High Energy Hadronic Collisions; Chapter 8 QCD at Finite Temperatures; Chapter 9 Excited Hadronic Matter in Heavy Ion Collisions; Chapter 10 Early Diagnostics of Hadronic Matter; Chapter 11 QCD at High Density; Chapter 12 A Wider Picture; Appendix A Notations; Appendix B Basic Instanton Formulae Appendix C A Sample Program for Numerical Simulation of the Euclidean Quantum PathsBibliography; Index |
| Sommario/riassunto      | This invaluable book is an extensive set of lecture notes on various aspects of non-perturbative quantum chromodynamics the fundamental theory of strong interaction on which nuclear and hadronic physics is based. The original edition of the book, written in the mid-1980's, had more of a review style.                                                                                                                                                                                                                                                                                                                                                                                                   |