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| 1. Record Nr. | UNINA9910139416003321 |
| Titolo | Quinonoid Compounds (1974): Part 2 |
| Pubbl/distr/stampa | John Wiley & Sons, Inc |
| ISBN | 0-470-77835-0
0-470-77130-5
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| Lingua di pubblicazione | Inglese |
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| Livello bibliografico | Monografia |
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| 2. Record Nr. | UNINA9910741155603321 |
| Autore | Charlton Michael |
| Titolo | Antihydrogen and Fundamental Physics / / by Michael Charlton, Stefan Eriksson, Graham M. Shore |
| Pubbl/distr/stampa | Cham : , : Springer International Publishing : , : Imprint : Springer, , 2020 |
| ISBN | 3-030-51713-6 |
| Edizione | [1st ed. 2020.] |
| Descrizione fisica | 1 online resource (VIII, 95 p. 8 illus., 3 illus. in color.) |
| Collana | SpringerBriefs in Physics, , 2191-5431 |
| Disciplina | 535.84 |
| Soggetti | Elementary particles (Physics)
Quantum field theory
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Elementary Particles, Quantum Field Theory
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| Nota di contenuto | Introduction -- Fundamental Principles -- Antihydrogen -- Other Antimatter Species -- Summary and Outlook. |
| Sommario/riassunto | The advent of high-precision antihydrogen spectroscopy has opened up the possibility of direct tests with unprecedented accuracy of some |

of the most fundamental principles of physics, notably Lorentz and CPT symmetry and the Einstein equivalence principle. This book reviews these principles, emphasising their interconnections in quantum field theory and general relativity and the special role of antimatter, and explores how they may be tested in current and forthcoming experiments on antihydrogen. Original research results relevant to the experimental programme of the ALPHA collaboration at CERN are presented, together with the implications for antihydrogen of proposed theories featuring novel 'fifth-force' interactions.
