1. Record Nr. UNINA9910493741603321 Autore Rothe Heinz J. **Titolo** Lattice gauge theories: an introduction / / Heinz J. Rothe Pubbl/distr/stampa Hackensack, New Jersey:,: World Scientific,, 2012 ©2012 **ISBN** 981-4365-87-4 Edizione [Fourth edition.] 1 online resource (606 pages) Descrizione fisica World Scientific Lecture Notes In Physics, , 1793-1436 ; ; Volume 82 Collana Disciplina 530.1435 Soggetti Lattice gauge theories Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Nota di bibliografia Includes bibliographical references and index. Sommario/riassunto "This book provides a broad introduction to gauge field theories formulated on a space-time lattice, and in particular of QCD. It serves as a textbook for advanced graduate students, and also provides the reader with the necessary analytical and numerical techniques to carry out research on his own. Although the analytic calculations are sometimes guite demanding and go beyond an introduction, they are discussed in sufficient detail, so that the reader can fill in the missing steps. The book also introduces the reader to interesting problems which are currently under intensive investigation. Whenever possible, the main ideas are exemplified in simple models, before extending them to realistic theories. Special emphasis is placed on numerical results obtained from pioneering work. These are displayed in a great

number of figures. Beyond the necessary amendments and slight extensions of some sections in the third edition, the fourth edition

under intensive investigation during the last twelve years."--

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