1.	Record Nr.	UNINA9910257402703321
	Titolo	Strongly Correlated Magnetic and Superconducting Systems [[electronic resource]]: Proceedings of the El Escorial Summer School Held in Madrid, Spain, 15–19 July 1996 / / edited by German Sierra, Miguel A. Martin-Delgado
	Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 1997
	ISBN	3-540-49734-X
	Edizione	[1st ed. 1997.]
	Descrizione fisica	1 online resource (VIII, 328 p. 19 illus.)
	Collana	Lecture Notes in Physics, , 0075-8450 ; ; 478
	Disciplina	530.4/12
	Soggetti	Magnetism Magnetic materials Physics Phase transitions (Statistical physics) Superconductivity Superconductors Magnetism, Magnetic Materials Mathematical Methods in Physics Numerical and Computational Physics, Simulation Phase Transitions and Multiphase Systems Strongly Correlated Systems, Superconductivity
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	Bibliographic Level Mode of Issuance: Monograph
	Nota di contenuto	An introduction to the Hubbard model A quantum critical trio: Solvable models of finite temperature crossovers near quantum phase transitions Notes on the density matrix renormalization group; Applications to ladder systems An introduction to quantum monte carlo methods Coupled Luttinger liquids On the application of the Non-linear sigma model to spin chains and spin ladders Density matrix and renormalization for classical lattice models Real-space renormalization group methods applied to quantum lattice hamiltonians A critical view of the real-space renormalization group method applied to the hubbard model Quantum dissipative systems

	 Impurity effects in quantum wires Skyrmions in the quantum hall effect Photoemission bands in systems of strongly correlated electrons Van hove scenario of high-T c superconductivity.
Sommario/riassunto	This volume, intended as a contribution to the 10th birthday of high Tc-superconductivity, conveys the essential ideas of the field and addresses researchers as well as graduate students. A special feature is the pedagogical treatment of a variety of modern computational methods to deal with non-pertubative effects in strongly correlated systems. Among the topics treated are the Hubbard models, real space renormalization group methods, quantum phase transitions, the non- linear sigma model, spin ladders and layers, and the quantum Hall effect.