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	in Ru-1212 and Ru-2212 Structure and Morphology of NdSr2RuCu2O y and GdSr2RuCu2Oz Synthesis Effects on the Magnetic and Superconducting Properties of RuSr2GdCu2O8 Comparison of Electronic Structure, Magnetic Mechanism, and Symmetry of Pairing in Ruthenates and Cuprates Magnetism, Spin Fluctuations and Superconductivity in Perovskite Ruthenates Metamagnetic Quantum Criticality in Sr3Ru2O7 Metamagnetic Transition and Low-Energy Spin Density Fluctuations in Sr3Ru2O7 Decrease of Ferromagnetic Transition Temperature in Nonstoichiometric SrRu1?v O3 Perovskites Strain Effects in SrRuO3 Thin Films and Heterostructures.
Sommario/riassunto	Ruthenate materials have come into focus recently because of their very interesting magnetic and superconducting properties. From the first international conference on this topic, the present volume has emerged as a first coherent account of the considerable body of work, both theoretical and experimental, gathered in this field within a short time span. The book has been written in the form of a set of lectures and tutorial reviews with the aim of providing the research community with both a comprehensive and modern source of reference and a tutorial introduction for postgraduate students and nonspecialists working in related areas.