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	Autore	INEA
	Titolo	Abruzzi e Molise : tavole statistiche
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2.	Record Nr.	UNINA9910298659103321
	Autore	McCalla Eric
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Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Introduction -- Experimental and Theoretical Considerations -- Optimization of the Synthesis of Combinatorial Samples -- Combinatorial Studies in the Li-Co-Mn-O System -- Combinatorial Studies of the Spinel and Rocksalt Regions in the Li-Mn-Ni-O System -- Combinatorial Studies of Compositions Containing Layered Phases in the Li-Mn-Ni-O System -- Investigations of Bulk Li-Mn-Ni-O Samples to Confirm the Combinatorial Studies -- Layered Materials with Metal Site Vacancies -- Materials Near the Layered Boundary -- Conclusions and Future Works.
Sommario/riassunto	<p>Li-Co-Mn-Ni oxides have been of extreme interest as potential positive electrode materials for next generation Li-ion batteries. Though many promising materials have been discovered and studied extensively, much debate remains in the literature about the structures of these materials. There is no consensus as to whether the lithium-rich layered materials are single-phase or form a layered-layered composite on the few nanometer length-scales. Much of this debate came about because no phase diagrams existed to describe these systems under the synthesis conditions used to make electrode materials. Detailed in this thesis are the complete Li-Co-Mn-O and Li-Mn-Ni-O phase diagrams generated by way of the combinatorial synthesis of mg-scale samples at over five hundred compositions characterized with X-ray diffraction. Selected bulk samples were used to confirm that the findings are relevant to synthesis conditions used commercially. The results help resolve a number of points of confusion and contradiction in the literature. Amongst other important findings, the compositions and synthesis conditions giving rise to layered-layered nano-composites are presented and electrochemical results are used to show how better electrode materials can be achieved by making samples in the single phase-layered regions.</p>