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Nota di bibliografia	Includes bibliographical references and indexes.
Nota di contenuto	1 Introduction -- 2 Commutative Theory -- 3 Noncommutative Theory.
Sommario/riassunto	The aim of this research is to develop a systematic scheme that makes it possible to transform important parts of the by now classical theory of summation of general orthonormal series into a similar theory for series in noncommutative L_p -spaces constructed over a noncommutative measure space (a von Neumann algebra of operators acting on a Hilbert space together with a faithful normal state on this algebra).