1.	Record Nr.	UNINA9910828803403321
	Autore	Philipp Walter <1936->
	Titolo	Mixing sequences of random variables and probabilistic number theory / / by Walter Philipp
	Pubbl/distr/stampa	Providence : , : American Mathematical Society, , 1971
	ISBN	0-8218-9911-2
	Descrizione fisica	1 online resource (108 p.)
	Collana	Memoirs of the American Mathematical Society ; ; number 114
	Disciplina	512/.7
	Soggetti	Probabilistic number theory Sequences (Mathematics) Random variables
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	Cover title.
	Nota di bibliografia	Includes bibliographical references.
	Nota di contenuto	""Contents""; ""Introduction""; ""1. Limit theorems for mixing sequences of random variables""; ""1.1. The central problem""; ""1.2. The central limit theorem with remainder and the law of the iterated logarithm""; ""1.3. An extension of the law of the iterated logarithm""; ""1.3.1. The upper bound""; ""1.3.2. The lower bound""; ""2. Limit theorems for continued fractions and related algorithms""; ""3. Limit theorems in Diophantine approximation""; ""3.1. Introduction""; ""3.2. Preliminaries""; ""3.3. The asymptotic behavior of N*""; ""3.3.1. Preparatory remarks"" ""3.3.2. The law of the iterated logarithm and the central limit theorem for the $y_{(j)}$'s and the $z_{(j)}$'s""""3.3.3. Proof of Theorem 3.1.2*""; ""3.3.4. Proof of Theorem 3.1.1*""; ""3.4. The asymptotic behavior of N""; ""4. The law of the iterated logarithm for discrepancies of sequences uniformly distributed mod 1""; ""4.1. The discrepancies of almost all sequences (in the sense of the infinite product measure)""; ""4.2. The discrepancies of sequences of the type ""; ""5. The distribution of additive functions""; ""5.1. Kubiliusf fundamental lemma"" ""5.2. Preparatory lemmas""""5.3. Limit theorems for additive functions of class H""; ""5.4. A more direct method""; ""5.5. A result on uniform distribution""; ""References""