



Metrical Theory of Continued Fractions (Mathematics and Its Applications)

M. Iosifescu, Cor Kraaikamp

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This monograph is intended to be a complete treatment of the metrical theory of the (regular) continued fraction expansion and related representations of real numbers. We have attempted to give the best possible results known so far, with proofs which are the simplest and most direct. The book has had a long gestation period because we first decided to write it in March 1994. This gave us the possibility of essentially improving the initial versions of many parts of it. Even if the two authors are different in style and approach, every effort has been made to hide the differences. Let \mathbb{O} denote the set of irrationals in $I = [0,1]$. Define the (regular) continued fraction transformation T by $T(w) = \text{fractional part of } 1/w, w \in \mathbb{O}$. Write T^n for the n th iterate of $T, n \in \mathbb{N} = \{0, 1, \dots\}, n \geq 1$ with $T^0 = \text{identity map}$. The positive integers $a_n(w) = a_n(T^{-n}(w)), n \in \mathbb{N}_+ = \{1, 2, \dots\}$, where $a_1(w) = \text{integer part of } 1/w, w \in \mathbb{O}$, are called the (regular continued fraction) digits of w . Writing \cdot for arbitrary indeterminates $X_i, 1 \leq i \leq n$, we have $w = \lim_{n \rightarrow \infty} [a_1(w), \dots, a_n(w)]$, $w \in \mathbb{O}$, thus explaining the name of T . The above equation will be also written as $w = \lim_{n \rightarrow \infty} [a_1(w), a_2(w), \dots], w \in \mathbb{O}$.

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