

**Boe, J. M.**

**Sur les codes synchronisants coupants.** (French) Zbl 0542.20046  
Quad. Ric. Sci. 109, 7-10 (1981).

If  $A$  is a code in a free monoid  $X^*$  with the property that there is a word  $a_0$  in  $A^*$  such that every word in  $X^*$  factors into  $f_1 f_2$  with  $a_0 f_1$  and  $f_2 a_0$  in  $A^*$ , then there are uniquely determined subsets  $Q$  and  $P$  of  $X^*$  such that every word in  $X^*$  has a unique factorization  $qap$  with  $q \in Q$ ,  $a \in A^*$ ,  $p \in P$ . A particular class of codes with this property had been considered by *A. Restivo* [Discrete Math. 17, 309-316 (1977; Zbl 0357.94011)].

Reviewer: [M.Armbrust](#)

**MSC:**

**20M35** Semigroups in automata theory, linguistics, etc.  
**20M05** Free semigroups, generators and relations, word problems

Cited in **9** Documents

**Keywords:**

[free monoid](#); [factorization](#); [codes](#)