A topological space $\Omega$ is a quasi F-space if for every pair of disjoint sequences $\{x_n : n \in \mathbb{N}\}, \{y_n : n \in \mathbb{N}\} \subset \Omega$ there exists an infinite index set $I \subset \mathbb{N}$ such that $\{x_n : n \in I\} \cap \{y_n : n \in I\} = \emptyset$. A direct proof and a generalization to countably compact quasi F-spaces is given for the following theorem [in L. L. Stachó, Ann. Mat. Pura Appl., IV. Ser. 128, 207-225 (1980; Zbl 0528.47041)]: A pointwise periodic topological automorphism of a compact F-space is necessarily periodic.

Keywords: automorphism; Baire group homomorphism; countably compact quasi F-spaces

Classification:
- \*54C10 Special maps on topological spaces
- 54F05 Ordered topological spaces
- 54D30 Compactness