

**Gleason, Andrew**

**Semigroups of shift register counting matrices.** (English) Zbl 0790.20086  
*Math. Syst. Theory* 25, No. 4, 253-267 (1992).

Summary: This is a revised and corrected version of notes from lectures by Andrew Gleason. The goal of the paper is a structure theorem about “onto maps” from the space of infinite Boolean sequences to itself, induced by binary functions on a shift register. The methods of proof involve a close study of the semigroup of counting matrices.

**MSC:**

**20M35** Semigroups in automata theory, linguistics, etc.

**15A30** Algebraic systems of matrices

**94C10** Switching theory, application of Boolean algebra; Boolean functions  
(MSC2010)

Cited in **2** Documents

**Keywords:**

Boolean sequences; binary functions; shift register; semigroup of counting matrices

**Full Text:** [DOI](#)

**References:**

- [1] Hedlund, G., Endomorphisms and automorphisms of the shift dynamical system, *Mathematical Systems Theory*, Vol. 3, No. 4, 1969, pp. 320-375. · [Zbl 0182.56901](#) · [doi:10.1007/BF01691062](#)

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