

[Ash, C. J.](#)

Finite semigroups with commuting idempotents. (English) [Zbl 0634.20032](#)
[J. Aust. Math. Soc., Ser. A 43, 81-90 \(1987\).](#)

Let S be a finite semigroup in which every two idempotents commute. The main result of this paper is that each such S is the homomorphic image of a subsemigroup of a finite inverse semigroup. A pseudovariety of semigroups is a class of finite semigroups closed under construction of subsemigroups, finite direct products, and homomorphic images. This paper shows that the class of finite semigroups in which every two idempotents commute is a pseudovariety and is the pseudovariety generated by the class of finite inverse semigroups.

Reviewer: [B.L.Madison](#)

MSC:

[20M10](#) General structure theory for semigroups
[20M07](#) Varieties and pseudovarieties of semigroups

Cited in **2** Reviews
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[pseudovariety of semigroups](#); [finite semigroups](#); [idempotents](#); [finite inverse semigroups](#)