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Base non finie de variétés. (French) [Zbl 0572.20041](#)

Theoretical aspects of computer science, 2nd ann. Symp., Saarbrücken/Ger. 1985, Lect. Notes Comput. Sci. 182, 180-186 (1985).

[For the entire collection see [Zbl 0561.00020](#).]

Semidirect products of varieties of monoids are considered. It is shown that the variety $J_1 * (\mathbb{Z}_2)$ has no finite equational base. Here J_1 and (\mathbb{Z}_2) are the varieties of monoids defined by the identities $x^2 = x$, $xy = yx$ and $x^2 = 1$, $xy = yx$, respectively.

Reviewer: [T.J.Harju](#)

MSC:

- [20M07](#) Varieties and pseudovarieties of semigroups
- [08B05](#) Equational logic, Mal'tsev conditions
- [20M35](#) Semigroups in automata theory, linguistics, etc.
- [68Q70](#) Algebraic theory of languages and automata

Cited in **1** Review
Cited in **6** Documents

Keywords:

[Semidirect products of varieties of monoids](#); [equational base](#)