

Czédli, G.

On the word problem of lattices with the help of graphs. (English) Zbl 0756.06002
Period. Math. Hung. 23, No. 1, 49-58 (1991).

The aim of the present paper is to give a new algorithm for the word problem of finitely presented lattices. Although there are known algorithms solving this problem, our approach is entirely different and the result looks simpler.

MSC:

[06B25](#) Free lattices, projective lattices, word problems
[03D40](#) Word problems, etc. in computability and recursion theory

Cited in **5** Documents

Keywords:

[algorithm](#); [word problem](#); [finitely presented lattices](#)

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References:

- [1] G. Czédli, Mal'cev conditions for Horn sentences with congruence permutability, Acta Math. Hungar., 44 (1-2) (1984), 115-124. MR 87a:08007 · Zbl 0541.08005 · doi:10.1007/BF01974108
- [2] R.A. Dean, Free lattices generated by partially ordered sets and preserving bounds, Canad. J. Math., 16 (1964), 136-148. MR 28:1144 · Zbl 0122.25801 · doi:10.4153/CJM-1964-013-5
- [3] T. Evans, The word problem for abstract algebras, London Math. Soc., 26 (1951), 64-71. MR 12:475 (Bates). · Zbl 0042.03303 · doi:10.1112/jlms/s1-26.1.64
- [4] B. Jónsson, On the representation of lattices, Math. Scandinavica, 1 (1953), 193-206. MR 15:389
- [5] J. C. C. McKinsey, The decision problem for some classes of sentences without quantifiers, J. Symbolic Logic, 8 (1943), 61-76. MR 5:85 · Zbl 0063.03864 · doi:10.2307/2268172
- [6] P. Pudlák, and J. Tuma, Yeast graphs and fermentation of algebraic lattices, Colloq. Math. Soc. J. Bolyai, 14. Lattice Theory (Szeged, 1974), 301-341. MR 56:193

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