

**Shaposhnikov, I. G.**

**On some systems of generators of symmetric and alternating groups which allow a simple software implementation.** (English. Russian original) [Zbl 1052.20003](#)

*Discrete Math. Appl.* 14, No. 1, 103-110 (2004); translation from *Diskretn. Mat.* 16, No. 1, 114-120 (2004).

Summary: We give systems of generators of symmetric and alternating permutation groups whose software implementation relies upon simple arithmetical operations. For some given systems, we estimate the group depth (the generator system index).

**MSC:**

20B40 Computational methods (permutation groups) (MSC2010)

20F05 Generators, relations, and presentations of groups

20B35 Subgroups of symmetric groups

**Keywords:**

systems of generators; symmetric groups; alternating groups; group depth

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

**References:**

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