

ABOUT TRIMEDIAL QUASIGROUPS

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The term 'quasigroup' was belongs to R.Mufang. Her works, denoted by non-desarg project plane, become push in development of the theory of quasigroup. At present, this theory of quasigroups is the separate section of the algebra.

That section have relations with:

- the most algebra ;
- the geometry (the theory projective planes);
- the theory combistoric (the theory latin square);
- the algebraic networks and others.

Medial quasigroup class is a one of the first classes that was a studied.

These the quasigroups are defined (determined) by identity

$$xy \cdot uv = xu \cdot yv$$

Medial quasigroups naturally it is possible to generalize as follows:

The quasigroup $Q(\cdot)$ refers to trimedial, if its (her) any three elements derivate medial quasigroup. For example, distributive quasigroup, CH - quasigroup is a medial quasigroups.

In work communication (connection) CH - quasigroups, trimedial quasigroups, commutative F - quasigroups is underlined.

It appears, that in commutative F - quasigroup $Q(\cdot)$ the set of local units forms edinal $e(Q)$ which coincides with associator $Q(\cdot)$, that is the factor - quasigroup $Q/e(Q)$ is (commutative) group.

And, that the class CH - quasigroups coincides with a class total - symmetric F - quasigroups.

References

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