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 *$\alpha$ -filters and  $\alpha$ -order-ideals in distributive  
quasicomplemented semilattices*

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**Abstract:** We introduce some particular classes of filters and order-ideals in distributive semilattices, called  $\alpha$ -filters and  $\alpha$ -order-ideals, respectively. In particular, we study  $\alpha$ -filters and  $\alpha$ -order-ideals in distributive quasicomplemented semilattices. We also characterize the filters-congruence-cokernels in distributive quasicomplemented semilattices through  $\alpha$ -order-ideals.

**Keywords:** bounded distributive semilattice; quasicomplement; relative annihilator; order-ideal; filter

**AMS Subject Classification:** 06A12, 03G10

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