

# Parasemifield

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**Abstract:** Parasemifield is an algebraic structure where a multiplicative group distributes over an additive commutative semigroup, positive rationals being the most classical example. Similarly, ordered fields give rise to parasemifields with additive cancellation. Another large class of parasemifields are additively idempotent ones (i.e., the additive semigroup is a semilattice) which are naturally equivalent to lattice ordered groups, however the general parasemifields are rather enigmatic. Nevertheless, it is possible to characterize congruence-simple commutative parasemifields which are finitely generated as semirings.