A NEW CLASS OF NON-ASSOCIATIVE PARTIAL RINGS

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In 1988 Abd Allah and Abdullah MEGM had defined a partial ring with two binary operations. These partial rings P studied by him is an associative algebraic structure as it was basically defined by taking (P, +) and (P, .) as semigroups under addition and multiplication respectively. We in this note define a new class of non-associative partial rings. These non-associative partial ring also basically make use of regular semigroups. As these structures happen to be non-associative an entire study and introduction of identities like Moufang, Bol, alternative yield interesting results. As in case of non-associative rings, commutators, associators and nucleus can be defined and analysed. We have mainly proved that all lattices can be made into non-associative partial rings. Further using a partial ring we can always construct a non-associative partial ring.