Implication Algebras

IVAN CHAJDA
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Math and Computer Science

Abstract
We will start with axiomatization of the propositional connector implication in classical logic, used in the 1960’s by J.C. Abbot. We continue with several non-classical logics, includign the logic of quantum mechanics. Both axiom systems and a related (semi-)lattice structure will be presented in each case. A common approach using antitone involutions on certain semilattice structures will be shown.