

CHARACTERIZATION OF ALMOST SEMI-HEYTING ALGEBRA

V.V.V.S.S.P.S. SRIKANTH

M.V. RATNAMANI

Department of Basic Science and Humanities
Aditya Institute of Technology and Management
Tekkali, India

e-mail: srikanth.vvvs@gmail.com
vvratnamani@gmail.com

AND

S. RAMESH

Department of Mathematics
Institute of Science, GITAM (Deemed to be University)
Visakhapatnam, India

e-mail: ramesh.sirisetti@gmail.com

Abstract

In this paper, we initiate the discourse on the properties that hold in an almost semi-Heyting algebra but not in a semi-Heyting almost distributive lattice. We establish an equivalent condition for an almost semi-Heyting algebra to become a Stone almost distributive lattice. Moreover a glance about dense elements in an almost semi-Heyting algebra followed by study of some algebraic properties on them. Finally, we perceive that the kernel of homomorphism is equal to the dense element set.

Keywords: almost distributive lattice, semi-Heyting almost distributive lattice, almost semi-Heyting algebra, dense element and stone almost distributive lattice.

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