

International J. of Math. Sci. & Engg. Appls. (IJMSEA)
ISSN 0973-9424, Vol. 9 No. I (March, 2015), pp. 293-306

***D*-CONGRUENCES AND *D*-FILTERS OF *p*-ALGEBRAS**

MOHAMMAD ATALLAH

Department of Mathematics,
Faculty of Science, Tanta University,
Tanta, Egypt

Abstract

The concept of *D*-filter, some related properties and its characterization theorem are introduced to catch the distributive part in the decomposable *p*-algebras. As a special case the *D*-principal filter and some related properties are introduced. Also, we introduce a *D*-congruence relation which is a generalization to well known Gilvinko congruence relation and prove some related properties. Also, a characterization of *D*-Congruence is given and concluded by the interconnection relation between the *D*-filters and *D*-Congruence of decomposable *p*-algebras.

Key Words : *Bounded lattices, p-algebras, Quasi-modular p-algebras, D-filters, D-congruences.*

2010 AMS Subject Classification : 06A06, 06A20, 06A30, 06D15.

© <http://www.ascent-journals.com>