(a) is reduced $P_k = P_i = P_j$. Hence m = n and the primary Combining (f) and (g), Pk C P C and recalling that

decomposition is unique.

Corollary 9. A Prufer (Bezout) domain R is a Prufer (Bezout) And all that interests us at present may be stated as

by the above theorem show that R is a W-domain and a W-domain primary decomposition then these decompositions being unique Proof. If R is a Prufer domain and every ideal of R has a GAD iff every ideal of R has a primary decomposition.

Conversely in a Prufer GKD every non zero prime ideal is which is Prufer is a Prufer GaD.

maximal ideals, and this is a condition for a domain to be a maximal and every ideal is contained in a finite number of

.M-domain.

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