

SP-DOMAINS ARE ALMOST DEDEKIND — A STREAMLINED PROOF

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Abstract

Let D be a domain. By [4], D has "property SP" if every ideal of D is a product of radical ideals. It is natural to consider property SP after studying Dedekind domains, which involve factoring ideals into prime ideals. In their article [4] Vaughan and Yeagy prove that a domain having property SP is an almost Dedekind domain. We give a very short and easy proof of this result.

Keywords: SP-domain, almost Dedekind domain, discrete valuation domain.

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