

FACTORIZATION IN INTEGRAL DOMAINS

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In this paper, we study factorization in an integral domain R , that is, factoring elements of R into products of irreducible elements. We investigate several factorization properties in R which are weaker than unique factorization.

Introduction

Let R be an integral domain with quotient field K . In this paper, we study factorization in R , that is, factoring elements of R into products of irreducible elements. The classical situation is when this factorization exists and is unique up to order and associates, that is, when R is a unique factorization domain (UFD). This case has been studied extensively, and there are many excellent accounts of the theory ([14, 17, 28-30], for example). In this paper, we investigate various related factorization properties weaker than unique factorization. Our goal is to give a careful study of these properties and to give many examples, each as elementary as possible.

We first define the various factorization properties which we will study here. Following Cohn [13], we say that R is *atomic* if each nonzero nonunit of R is a product of a finite number of irreducible elements (atoms) of R . We say that R satisfies the *ascending chain condition on principal ideals* (ACCP) if there does not exist an infinite strictly ascending chain of principal integral ideals of R . The domain R is a *bounded factorization domain* (BFD) if R is atomic and for each nonzero nonunit of R there is a bound on the length of factorizations into products of irreducible elements. We say that R is a *half-factorial domain* (HFD) if R is atomic and each

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