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### Modules Over Non Noetherian Domains

Modules over Non-Noetherian Domains Share this page László Fuchs; Luigi Salce. In this book, the authors present both traditional and modern discoveries in the subject area, concentrating on advanced aspects of the topic.

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### Modules over Non-Noetherian Domains

Modules over Non-Noetherian Domains Laszlo Fuchs Luigi Sake American Mathematical Society. Table of Contents Preface xi List of Symbols xv Chapter I. Commutative Domains and Their Modules 1. Generalities on domains 1 2. Fractional ideals 9 3. Integral dependence 16 4. Module categories 22 5. Lemmas on Horn and Ext 27

### Modules over Non-Noetherian Domains - GBV

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### Modules over Non-Noetherian Domains page 3

The ring of integer-valued polynomials (the subring of  $\mathbb{Q}[X]$  of polynomials which take integer values at integers) is another example of a non-noetherian integral domain. The ring of continuous functions on  $[a, b]$  is yet another example (it's not an integral domain).

### What is an easy example of non-Noetherian domain?

Every left injective module over a left Noetherian module can be decomposed as a direct sum of indecomposable injective modules. In a commutative Noetherian ring, there are only finitely many minimal prime ideals. Also, the descending chain condition holds on prime ideals. In a commutative Noetherian domain  $R$ , every element can be factorized into irreducible elements. Thus, if, in addition, irreducible elements are prime elements, then  $R$  is a unique factorization domain.

### Noetherian ring - Wikipedia

In mathematics, a Prüfer domain is a type of commutative ring that generalizes Dedekind domains in a non-Noetherian context. These rings possess the nice ideal and module theoretic properties of Dedekind domains, but usually only for finitely generated modules. Prüfer domains are named after the German mathematician Heinz Prüfer.

### Prüfer domain - Wikipedia

[4] L. Fuchs and L. Salce, Modules over Non-Noetherian Domains, Mathematical Surveys and Monographs 84, AMS, Providence, RI, 2001. [5] R. Gilmer, Multiplicative Ideal Theory, Queen's Papers ...

### (PDF) Localization of injective modules over w-Noetherian ...

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### Modules over Non-Noetherian Domains Mathematical Surveys ...

Over integral domains, we characterize modules of finite weak dimension  $\leq n$  in terms of  $h$ -divisible pure-injective modules (Theorems 2.1 and 2.2). We compare various classes of  $h$ -divisible modules in terms of cotorsion modules (Theorems 3.1 through 3.11). We also introduce copure-weak-injective modules and characterize them over certain domains (Theorems 4.3 and 4.6).

### h-Divisible modules over Integral domains - ScienceDirect

As a  $Q$ -module,  $Q$  is both Noetherian and Artinian. In general, a finite dimensional vector space  $V$  over a division ring  $D$  is both Noetherian and Artinian  $D$ -module.

### Chapter 3

In other words, a commutative ring is noetherian if and only if all its non-maximal ideals are finitely generated ideals. Indeed, (a),(b),(c),(d) work with no change for every given infinitely generated maximal ideal  $\mathfrak{m}$ .

### ac-commutative algebra - local ring all whose non-maximal ...

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### Non finiteness in finite dimensional Krull domains - PDF ...

In abstract algebra, a Dedekind domain or Dedekind ring, named after Richard Dedekind, is an integral domain in which every nonzero proper ideal factors into a product of prime ideals.It can be shown that such a factorization is then necessarily unique up to the order of the factors. There are at least three other characterizations of Dedekind domains that are sometimes taken as the definition ...