Flat modules over valuation rings

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Abstract

Let R be a valuation ring and let Q be its total quotient ring. It is proved that any singly projective (respectively flat) module is finitely projective if and only if Q is maximal (respectively artinian). It is shown that each singly projective module is a content module if and only if any non-unit of R is a zero-divisor and that each singly projective module is locally projective if and only if R is self-injective. Moreover, R is maximal if and only if each singly projective module is separable, if and only if any flat content module is locally projective. Necessary and sufficient conditions are given for a valuation ring with non-zero zero-divisors to be strongly coherent or π–coherent.

A complete characterization of semihereditary commutative rings which are π–coherent is given. When R is a commutative ring with a self-FP-injective quotient ring Q, it is proved that each flat R-module is finitely projective if and only if Q is perfect.
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MSC: Primary: 13F30; 13C11; secondary: 16D40

In this paper, we consider the following properties of modules: P-flatness, flatness, content flatness, local projectivity, finite projectivity and single projectivity. We investigate the relations between these properties when R is a PP-ring or a valuation ring. Garfinkel [11], Zimmermann-Huisgen [22], and Gruson and Raynaud [13] introduced the concepts of locally projective modules and strongly coherent rings and developed important theories on these. The notions of finitely projective modules and π–coherent rings are due to Jones [15]. An interesting study of finitely projective modules and singly projective modules is also done by Azumaya in [1]. For a module M over a ring R, the following implications always hold:

$$M \text{ is projective} \implies M \text{ is locally projective} \implies M \text{ is flat content}$$
$$\Downarrow \qquad\qquad\qquad\qquad \Downarrow$$
$$M \text{ is finitely projective} \implies M \text{ is flat}$$
$$\Downarrow \qquad\qquad\qquad\qquad \Downarrow$$
$$M \text{ is singly projective} \implies M \text{ is } P\text{-flat},$$

but these are not generally reversible. However, if R satisfies an additional condition, we get some equivalences. For instance, in [2], Bass defined a ring R to be right perfect if each flat right module is projective. In [23] it is proved that a ring R is right perfect if and only if each flat right module is locally projective, and if and only if each locally projective

Modules Over Valuation Rings

D. Arnold,R. Hunter,E. Walker

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   Modules over Valuation Rings László Fuchs,Luigi Salce,1985-03-27 This book initiates a systematic in depth study of Modules Over Valuation Domains It introduces the theory of modules over commutative domains without finiteness conditions and examines frontiers of current research in modules over valuation domains It represents a unique effort to combine ideas from abelian group theory in a large scale with powerful techniques developed in module theory This volume surveys the background material on valuation rings modules and homological algebra features new results for important classes of modules such as finitely generated divisible pure injective and projective dimension one never published before contains exercises and research problems offering guidance for independent and creative study and provides historical notes comments and an extensive bibliography Mathematicians and advanced graduate level mathematics students interested in module theory abelian group theory and commutative ring theory can stay abreast of the latest advances with Modules Over Valuation Domains Book jacket   **Modules over Discrete Valuation Rings** Piotr A. Krylov,Askar A. Tuganbaev,2018-09-24 This book provides the first systematic treatment of modules over discrete valuation domains which play an important role in various areas of algebra especially in commutative algebra Many important results representing the state of the art are presented in the text along with interesting open problems This updated edition presents new approaches on p adic integers and modules and on the determinability of a module by its automorphism group Contents Preliminaries Basic facts Endomorphism rings of divisible and complete modules Representation of rings by endomorphism rings Torsion free modules Mixed modules Determinity of modules by their endomorphism rings Modules with many endomorphisms or automorphisms   **Modules over Discrete Valuation Domains** Piotr A. Krylov,Askar A. Tuganbaev,2008-08-27 This book provides the first systematic treatment of modules over discrete valuation domains which plays an important role in various areas of algebra especially in commutative algebra Many important results representing the state of the art are presented in the text which is supplemented by exercises and interesting open problems An important contribution to commutative algebra   *A Classification of Modules Over Discrete Valuation Rings* Sharon Cutler Ross,1976   Modules over Non-Noetherian Domains László Fuchs,Luigi Salce,2001 In this book the authors present both traditional and modern discoveries in the subject area concentrating on advanced aspects of the topic Existing material is studied in detail including finitely generated modules projective and injective modules and the theory of torsion and torsion free modules Some topics are treated from a new point of view Also included are areas not found in current texts for example pure injectivity divisible modules uniserial modules etc Special emphasis is given to results that are valid over arbitrary domains The authors concentrate on modules over valuation and Pr fer domains but also discuss Krull and Matlis domains h local reflexive and coherent domains The volume can serve as a standard reference book for specialists working in the area and also is a suitable text for advanced graduate algebra courses and seminars   **Modules Over Complete Discrete Valuation Rings**

Chang Mo Bang,1969 **Semilocal Categories and Modules with Semilocal Endomorphism Rings** Alberto Facchini,2019-10-23 This book collects and coherently presents the research that has been undertaken since the author s previous book Module Theory 1998 In addition to some of the key results since 1995 it also discusses the development of much of the supporting material In the twenty years following the publication of the Camps Dicks theorem the work of Facchini Herbera Shamsuddin Puninski Prihoda and others has established the study of serial modules and modules with semilocal endomorphism rings as one of the promising directions for module theoretic research Providing readers with insights into the directions in which the research in this field is moving as well as a better understanding of how it interacts with other research areas the book appeals to undergraduates and graduate students as well as researchers interested in algebra *Representation Theory, Group Rings, and Coding Theory* M. Isaacs,1989 Dedicated to the memory of the Soviet mathematician S D Berman 1922 1987 this work covers topics including Berman s achievements in coding theory including his pioneering work on abelian codes and his results on the theory of threshold functions <u>Selected Papers and Other Writings</u> Irving Kaplansky,1995-04-13 It is not often that one gets to write a preface to a collection of one s own papers The most urgent task is to thank the people who made this book possible That means first of all Hy Bass who on behalf of Springer Verlag approached me about the idea The late Walter Kaufmann Biihler was very encouraging Paulo Ribenboim helped in an important way and Ina Lindemann saw the project through with tact and skill that I deeply appreciate My wishes have been indulged in two ways First I was allowed to follow up each selected paper with an afterthought Back in my student days I became aware of the Gesammelte Mathematische Werke of Dedekind edited by Fricke Noether and Ore I was impressed by the editors notes that followed most of the papers and found them very usefuL A more direct model was furnished by the collected papers of Lars Ahlfors in which the author himself supplied afterthoughts for each paper or group of papers These were tough acts to follow but I hope that some readers will find at least some of my afterthoughts interesting Second I was permitted to add eight previously unpublished items My model here to a certain extent was the charming little book A Mathematician s Miscel lany by J E Littlewood In picking these eight I had quite a selection to make from fourteen loose leaf notebooks of such writings Here again I hope that at least some will be found to be of interest *Abelian Group Theory* D. Arnold,R. Hunter,E. Walker,2006-11-15 *Commutative Ring Theory* Paul-Jean Cahen,Douglas L. Costa,Marco Fontana,Sarah-Eddine Kabbaj,2023-06-14 Exploring commutative algebra s connections with and applications to topological algebra and algebraic geometry Commutative Ring Theory covers the spectra of rings chain conditions dimension theory and Jaffard rings fiber products group rings semigroup rings and graded rings class groups linear groups integer valued polynomials rings of finite fractions big Cohen Macaulay modules and much more **Introduction to [lambda]-trees** Ian Chiswell,2001 The theory of o trees has its origin in the work of Lyndon on length functions in groups The first definition of an R tree was given by Tits in 1977 The importance of o trees was established by Morgan and Shalen who showed how to

compactify a generalisation of Teichmller space for a finitely generated group using R trees In that work they were led to define the idea of a o tree where o is an arbitrary ordered abelian group Since then there has been much progress in understanding the structure of groups acting on R trees notably Rips theorem on free actions There has also been some progress for certain other ordered abelian groups o including some interesting connections with model theory Introduction to o Trees will prove to be useful for mathematicians and research students in algebra and topology Contents o Trees and Their Construction Isometries of o Trees Aspects of Group Actions on o Trees Free Actions Rips Theorem Readership Mathematicians and research students in algebra and topology   *Handbook of Algebra* ,2003-10-15 Handbook of Algebra

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Table of Contents Modules Over Valuation Rings

1. Understanding the eBook Modules Over Valuation Rings
    - The Rise of Digital Reading Modules Over Valuation Rings
    - Advantages of eBooks Over Traditional Books
2. Identifying Modules Over Valuation Rings
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Modules Over Valuation Rings
    - User-Friendly Interface
4. Exploring eBook Recommendations from Modules Over Valuation Rings
    - Personalized Recommendations

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