

PROJECTIVELY TORSION-FREE MODULES

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1. Introduction

A right R -module A_R will be said to be *right projectively torsion-free* (A_R is PTF) if for every $a \in A$, there exist subsets $\{a_1, a_2, \dots, a_n\} \subseteq A$ and $\{x_1, x_2, \dots, x_n\} \subseteq R$ such that $a = \sum_{i=1}^n a_i x_i$ and for all $x \in R$, if $ax = 0$ then $x_i x = 0$ for all $1 \leq i \leq n$.

Let \mathcal{S}_R denote the class of right PTF modules of the ring R . It is shown that \mathcal{S}_R is the torsion-free class of a hereditary torsion theory if and only if R is a right non-singular ring and every right complement ideal of R is generated by an idempotent. These rings include the continuous regular rings as discussed by Y. Utumi (1961) and (1963).

Hattori (1960) defined a module A_R to be torsion-free if for all $a \in A$ and $x \in R$, $ax = 0$ implies there exist subsets $\{x_1, x_2, \dots, x_n\} \subseteq R$, with $x_i x = 0$ for all $1 \leq i \leq n$, and $\{a_1, a_2, \dots, a_n\} \subseteq A$ such that $a = \sum_{i=1}^n a_i x_i$. We will call such modules *H-torsion-free*. This property may be considered as a 'one-dimensional' flatness. Similarly we show that PTF may be regarded as a 'one dimensional' projectivity. Some of the results of this paper may be considered analogous to results on *H-torsion-free* R -modules by Hattori (1960) and the author (1973).

Baer rings, in the sense of Kaplansky (1969), are characterised by right PTF modules. In section three it is shown that \mathcal{S}_R is closed under submodules if and only if every principal right ideal of R is projective. The property that \mathcal{S}_R is closed under direct products is also considered in this section.

In the final section of this paper it is shown that for a commutative non-singular ring R , \mathcal{S}_R is closed under forming injective hulls if and only if $\text{Min } R$, the space of minimal prime ideals of R , is compact and extremally disconnected.

Some portions of this paper appeared in the authors' Ph.D. thesis at Monash University.

Torsion Free Modules

Lingjun Ying



Torsion Free Modules:

An Introduction to Homological Algebra Joseph J. Rotman, 2008-12-10 Homological Algebra has grown in the nearly three decades since the first edition of this book appeared in 1979 Two books discussing more recent results are Weibel An Introduction to Homological Algebra 1994 and Gelfand Manin Methods of Homological Algebra 2003 In their Foreword Gelfand and Manin divide the history of Homological Algebra into three periods the first period ended in the early 1960s culminating in applications of Homological Algebra to regular local rings The second period greatly influenced by the work of A Grothendieck and J P Serre continued through the 1980s it involves abelian categories and sheaf cohomology The third period involving derived categories and triangulated categories is still ongoing Both of these newer books discuss all three periods see also Kashiwara Schapira Categories and Sheaves The original version of this book discussed the first period only this new edition remains at the same introductory level but it now introduces the second period as well This change makes sense pedagogically for there has been a change in the mathematics population since 1979 today virtually all mathematics graduate students have learned something about functors and categories and so I can now take the categorical viewpoint more seriously When I was a graduate student Homological Algebra was an unpopular subject The general attitude was that it was a grotesque formalism boring to learn and not very useful once one had learned it

Advanced Linear Algebra Steven Roman, 2007-09-20 For the third edition the author has added a new chapter on associative algebras that includes the well known characterizations of the finite dimensional division algebras over the real field a theorem of Frobenius and over a finite field Wedderburn's theorem polished and refined some arguments such as the discussion of reflexivity the rational canonical form best approximations and the definitions of tensor products upgraded some proofs that were originally done only for finite dimensional rank cases added new theorems including the spectral mapping theorem corrected all known errors the reference section has been enlarged considerably with over a hundred references to books on linear algebra From the reviews of the second edition In this 2nd edition the author has rewritten the entire book and has added more than 100 pages of new materials As in the previous edition the text is well written and gives a thorough discussion of many topics of linear algebra and related fields the exercises are rewritten and expanded Overall I found the book a very useful one It is a suitable choice as a graduate text or as a reference book

Ali Akbar Jafarian ZentralblattMATH This is a formidable volume a compendium of linear algebra theory classical and modern The development of the subject is elegant The proofs are neat The exercise sets are good with occasional hints given for the solution of trickier problems It represents linear algebra and does so comprehensively

Henry Ricardo MathDL **Lectures On sl_2 (c)-modules** Volodymyr Mazorchuk, 2009-12-04 This book is directed primarily at undergraduate and postgraduate students interested to get acquainted with the representation theory of Lie algebras The book treats the case of the smallest simple Lie algebra namely the Lie algebra sl_2 It contains classical contents including the description of all finite dimensional modules and an introduction to the universal enveloping algebras

with its primitive ideals alongside non classical contents including the description of all simple weight modules the category of all weight modules a detailed description of the category \mathcal{O} and especially a description of all simple modules The book also contains an account of a new research direction the categorification of simple finite dimensional modules a

Foundations of Commutative Rings and Their Modules Fanggui Wang, Hwankoo Kim, 2024-09-02 This book provides an introduction to the foundations and recent developments in commutative algebra A look at the contents of the first five chapters shows that the topics covered are those usually found in any textbook on commutative algebra However this book differs significantly from most commutative algebra textbooks namely in its treatment of the Dedekind Mertens formula the small finitistic dimension of a ring Gorenstein rings valuation overrings the valuative dimension and the Nagata rings Chapter 6 goes on to present w modules over commutative rings as they are most commonly used in torsion theory and multiplicative ideal theory Chapter 7 deals with multiplicative ideal theory over integral domains Chapter 8 collects various results of pullbacks especially Milnor squares and D M constructions which are probably the most important example generating machines In Chapter 9 coherent rings of finite weak global dimensions are probed and the local ring of weak global dimension two is elaborated by combining homological tricks and methods of star operation theory Chapter 10 is devoted to the Grothendieck group of a commutative ring In particular the Bass Quillen problem is discussed Finally Chapter 11 introduces relative homological algebra especially where the related notions of integral domains appearing in classical ideal theory are defined and studied using the class of Gorenstein projective modules In Chapter 12 in this new edition properties of cotorsion theories are introduced and show for any cotorsion pair how to construct their homology theory Each section of the book is followed by a selection of exercises of varying difficulty This book appeals to a wide readership from graduate students to academic researchers interested in studying commutative algebra

Torsion-Free Modules Eben Matlis, 1972 The subject of torsion free modules over an arbitrary integral domain arises naturally as a generalization of torsion free abelian groups In this volume Eben Matlis brings together his research on torsion free modules that has appeared in a number of mathematical journals Professor Matlis has reworked many of the proofs so that only an elementary knowledge of homological algebra and commutative ring theory is necessary for an understanding of the theory The first eight chapters of the book are a general introduction to the theory of torsion free modules This part of the book is suitable for a self contained basic course on the subject More specialized problems of finding all integrally closed D rings are examined in the last seven chapters where material covered in the first eight chapters is applied An integral domain is said to be a D ring if every torsion free module of finite rank decomposes into a direct sum of modules of rank 1 After much investigation Professor Matlis found that an integrally closed domain is a D ring if and only if it is the intersection of at most two maximal valuation rings

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 **Sheaves and Torsion-free Modules** Mary Turgji, 1977 **Flat Covers of Modules** Jinzhong Xu, 1996-10-02 Since the injective envelope and projective cover were defined by Eckmann and Bas in the 1960s they have had great influence on the development of homological algebra ring theory and module theory In the 1980s Enochs introduced the flat cover and conjectured that every module has such a cover over any ring This book provides the uniform methods and systematic treatment to study general envelopes and covers with the emphasis on the existence of flat cover It shows that Enochs conjecture is true for a large variety of interesting rings and then presents the applications of the results Readers with reasonable knowledge in rings and modules will not have difficulty in reading this book It is suitable as a reference book and textbook for researchers and graduate students who have an interest in this field **Group Theoretical Methods in Physics** Mariano A. del Olmo, 1992 *Canadian Journal of Physics*, 1994-07 Mathematics of Linear and Nonlinear Systems David John Bell, 1990 Very Good No Highlights or Markup all pages are intact **Dissertation Abstracts International**, 1984-12 **Linear Representations of Groups** Paulo Ribenboim, 1967 Canadian Journal of Mathematics, 1973 Refereed journal publishing longer papers of original mathematical research *Bulletin de L'Académie Polonaise Des Sciences* Polska Akademia Nauk, 1971 **A Collection of Manuscripts Written in Honour of John H. Coates on the Occasion of His Sixtieth Birthday** I. Fesenko, 2006 This volume is dedicated to Professor John H Coates an outstanding contributor to number theory both through his pioneering and fundamental mathematical works and through the magnificent mathematical school he has established It contains 24 articles written by 38 authors on a wide range of topics in the cutting edge of research in number theory algebraic geometry and analysis zeta functions and L functions automorphic and modularity issues Galois representations arithmetic of elliptic curves Iwasawa theory noncommutative Iwasawa theory and p adic analysis This volume will be of interest to researchers and students in these and neighboring fields Information for our distributors A publication of the Documenta Mathematica The AMS distributes this series beginning with volume 3 in the United States Canada and Mexico *Symposia Mathematica*, 1979 *Rendiconti della Accademia nazionale delle scienze*

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