

**w-extending and pw-extending Modules**

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Keywords: Extending, w-extending, pw-extending.**Corresponding Author:****Name:** Mohammad E. Dahsh**E-mail:**mohammadali2013@gmail.com**Tel:****1.Introduction**

Throughout this paper all rings are commutative with identity and all modules are left unital module. A module X is called extending, if every submodule of X is essential in a direct summand of X . Equivalently that every closed submodule of X is a direct summand of X [1], where a non zero submodule K of a module X is called essential if $K \cap L \neq (0)$ for every non zero submodule L of X [2]. And a submodule K of a module X is called closed if K has no proper essential extension in X [2]. A submodule C of a module X is called weak essential if $C \cap S \neq (0)$ for each non zero semi-prime submodule S of X [3]. A submodule K of a module X is called w-closed, if K has no proper weak essential extension in X [4]. A submodule L of a module X is called pw-closed if for each $m \in M, m \notin L$, there exists a w-closed submodule F of X with $L \leq F$ and $m \notin F$ [5]. Every w-closed submodule is a pw-closed submodule, while the converse is not true in general [5]. An R -module M is called multiplication if every submodule N of M is of the form $N = IM$ for some ideal I of R [6]. An R -module Y is called fully semi-prime if every proper submodule of Y is a semi-prime [7]. An R -module M is called a completely essential if every non zero weak essential submodule of M is essential [7]. Let Y be an R -module $\text{ann}(y) = \{r \in R : ry = 0\}$ [2]. $Z(y) = \{y \in Y : \text{ann}(y) \text{ essential in } R\}$ is called singular submodule of Y if $Z(y) = Y$, then Y is

Abstract

In this work, we introduce and study two concepts of modules. The first one is a generalization of extending modules which is called a w-extending module. And the second concept is called pw-extending module which is a stronger property than w-extending. We give basic properties, example and characterization of these concepts. Moreover relationship of w-extending module and pw-extending modules with other types of modules are studied.

called singular module, if $Z(y) = (0)$, then Y is called nonsingular module [2].

2. W- extending Modules

In this section, we introduce a new generalization of extending module called a w-extending module.

Definition (2.1)

An R -module Y is called w-extending, if every submodule of Y is a weakly essential in a direct summand of Y . A ring R is a w-extending, if R is a w-extending R -module.

The following is a characterization of w-extending module.

Proposition (2.2)

A module Y is a w-extending if and only if every w-closed submodule of Y is a direct summand of Y .

Proof

(\Rightarrow) Let E be a w-closed submodule of Y , then E is a weak essential in a direct summand of Y say L . But E is a w-closed in Y , then by [4, Prop.2.4] $E=L$. Hence E is a direct summand of Y .

(\Leftarrow) Let E be a submodule of Y if $E = (0)$, then clearly E is a weak essential in a direct summand of Y . If $E \neq (0)$, then by [4, Prop.2.6], there exists a w-closed submodule L in Y such that E is a weak essential in L . Thus, by hypothesis L is a direct summand of Y , so E is a weak essential in a direct summand of Y . Hence Y is a w-extending module.

Proposition (2.3)

Extending Modules

**Syed Tariq Rizvi, Asma Ali, Vincenzo De
Filippis**

Extending Modules:

Extending Modules Nguyen Viet Dung, Dinh Van Huynh, P F Smith, Robert Wisbauer, 1994-11-30 Module theory is an important tool for many different branches of mathematics as well as being an interesting subject in its own right Within module theory the concept of injective modules is particularly important Extending modules form a natural class of modules which is more general than the class of injective modules but retains many of its desirable properties This book gathers together for the first time in one place recent work on extending modules It is aimed at anyone with a basic knowledge of ring and module theory

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Module Theory, Extending Modules and Generalizations Adnan Tercan, Canan C. Yücel, 2016-05-13 The main focus of this monograph is to offer a comprehensive presentation of known and new results on various generalizations of CS modules and CS rings Extending or CS modules are generalizations of injective and also semisimple or uniform modules While the theory of CS modules is well documented in monographs and textbooks results on generalized forms of the CS property as well as dual notions are far less present in the literature With their work the authors provide a solid background to module theory accessible to anyone familiar with basic abstract algebra The focus of the book is on direct sums of CS modules and classes of modules related to CS modules such as relative injective ejective modules quasi continuous modules and lifting modules In particular matrix CS rings are studied and clear proofs of fundamental decomposition results on CS modules over commutative domains are given thus complementing existing monographs in this area Open problems round out the work and establish the basis for further developments in the field The main text is complemented by a wealth of examples and exercises

Advances in Ring Theory S.K. Jain, Rizvi S. Tariq, 2012-12-06

Extensions of Rings and Modules Gary F. Birkenmeier, Jae Keol Park, S Tariq Rizvi, 2013-07-19 The extensions of rings and modules have yet to be explored in detail in a research monograph This book presents state of the art research and also stimulating new and further research Broken into three parts Part I begins with basic notions terminology definitions and a description of the classes of rings and modules Part II considers the transference of conditions between a base ring or module and its extensions And Part III utilizes the concept of a minimal essential extension with respect to a specific class a hull Mathematical interdisciplinary applications appear throughout Major applications of the ring and module theory to Functional Analysis especially C algebras appear in Part III make this book of interest to Algebra and Functional Analysis researchers Notes and exercises at the end of every chapter and open problems at the end of all three parts lend this as an ideal textbook for graduate or advanced undergraduate students

Abelian Groups and Modules Paul C. Eklof, Rüdiger Göbel, 2013-04-17 A 30 article volume introducing an active and attractive part of algebra that has gained

much from its position at the crossroads of mathematics over the years The papers stimulate the reader to consider and actively investigate the topics and problems they contain *Ring and Module Theory* Toma Albu, Gary F. Birkenmeier, Ali Erdogan, Adnan Tercan, 2011-02-04 This book is a collection of invited papers and articles many presented at the 2008 International Conference on Ring and Module Theory The papers explore the latest in various areas of algebra including ring theory module theory and commutative algebra *Advances in Rings and Modules* Sergio R. López-Permouth, Jae Keol Park, S. Tariq Rizvi, Cosmin S. Roman, 2018-09-06 This volume dedicated to Bruno J Müller a renowned algebraist is a collection of papers that provide a snapshot of the diversity of themes and applications that interest algebraists today The papers highlight the latest progress in ring and module research and present work done on the frontiers of the topics discussed In addition selected expository articles are included to give algebraists and other mathematicians including graduate students an accessible introduction to areas that may be outside their own expertise **Lifting Modules** John Clark, Christian Lomp, N. Vanaja, Robert Wisbauer, 2008-08-17 Extending modules are generalizations of injective modules and dually lifting modules generalize projective supplemented modules There is a certain asymmetry in this duality While the theory of extending modules is well documented in monographs and text books the purpose of our monograph is to provide a thorough study of supplements and projectivity conditions needed to investigate classes of modules related to lifting modules The text begins with an introduction to small submodules the radical variations on projectivity and hollow dimension The subsequent chapters consider preradicals and torsion theories in particular related to small modules decompositions of modules including the exchange property and local semi T nilpotency supplements in modules with specific emphasis on semilocal endomorphism rings finishing with a long chapter on lifting modules leading up their use in the theory of perfect rings Harada rings and quasi Frobenius rings Most of the material in the monograph appears in book form for the first time The main text is augmented by a plentiful supply of exercises together with comments on further related material and on how the theory has evolved **Rings, Modules and Codes** André Leroy, Christian Lomp, Sergio López-Permouth, Frédérique Oggier, 2019-04-12 This book contains the proceedings of the Fifth International Conference on Noncommutative Rings and their Applications held from June 12 15 2017 at the University of Artois Lens France The papers are related to noncommutative rings covering topics such as ring theory with both the elementwise and more structural approaches developed module theory with popular topics such as automorphism invariance almost injectivity ADS and extending modules and coding theory both the theoretical aspects such as the extension theorem and the more applied ones such as Construction A or Reed Muller codes Classical topics like enveloping skewfields weak Hopf algebras and tropical algebras are also presented *Ring Theory and Its Applications* Dinh Van Huynh, S. K. Jain, Sergio R. López-Permouth, S. Tariq Rizvi, Cosmin S. Roman, 2014-02-21 This volume contains the proceedings of the Ring Theory Session in honor of T Y Lam's 70th birthday at the 31st Ohio State Denison Mathematics Conference held from May 25 27 2012 at The Ohio State

University Columbus Ohio Included are expository articles and research papers covering topics such as cyclically presented modules Eggert's conjecture the Mittag-Leffler conditions clean rings McCoy rings QF rings projective and injective modules Baer modules and Leavitt path algebras Graduate students and researchers in many areas of algebra will find this volume valuable as the papers point out many directions for future work in particular several articles contain explicit lists of open questions

Categorical, Homological and Combinatorial Methods in Algebra Ashish K. Srivastava, André Leroy, Ivo Herzog, Pedro A. Guil Asensio, 2020-06-23 This book contains the proceedings of the AMS Special Session in honor of S K Jain's 80th birthday on Categorical Homological and Combinatorial Methods in Algebra held from March 16-18, 2018 at Ohio State University Columbus Ohio The articles contained in this volume aim to showcase the current state of art in categorical homological and combinatorial aspects of algebra

Algebra and its Applications Syed Tariq Rizvi, Asma Ali, Vincenzo De Filippis, 2016-11-18 This book discusses recent developments and the latest research in algebra and related topics The book allows aspiring researchers to update their understanding of prime rings generalized derivations generalized semiderivations regular semigroups completely simple semigroups module hulls injective hulls Baer modules extending modules local cohomology modules orthogonal lattices Banach algebras multilinear polynomials fuzzy ideals Laurent power series and Hilbert functions All the contributing authors are leading international academicians and researchers in their respective fields Most of the papers were presented at the international conference on Algebra and its Applications ICAA 2014 held at Aligarh Muslim University India from December 15-17, 2014 The book also includes papers from mathematicians who couldn't attend the conference The conference has emerged as a powerful forum offering researchers a venue to meet and discuss advances in algebra and its applications inspiring further research directions

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Contents On Structure of Prime Rings with Generalized Derivation A characterization of additive mappings in rings with involution Skew constacyclic codes over $F_q[x]$ $vF_q[x]$ $2F_q[x]$ Generalized total graphs of commutative rings A survey Differential conditions for which near rings are commutative rings Generalized Skew Derivations satisfying the second Posner's theorem on Lie ideals Generalized Skew Derivations on Lie Ideals in Prime Rings On generalized derivations and commutativity of prime rings with involution On n -d Krull property in amalgamated algebra Pure ideals in ordered semigroups Projective ideals of differential polynomial rings over HNP rings Additive central m -power

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perfect decomposition properties The advantage of both types of module is that the Krull Schmidt theorem can be applied in part to them The authors present here a complete account of the subject and at the same time give a unified picture of the theory The treatment is essentially self contained with background facts being summarized in the first chapter This book will be useful therefore either to individuals beginning research or the more experienced worker in algebra and representation theory

International Symposium on Ring Theory Gary F. Birkenmeier, Jae K. Park, Young S. Park, 2012-12-06 This volume is the Proceedings of the Third Korea China Japan International Symposium on Ring Theory held jointly with the Second Korea Japan Joint Ring Theory Seminar which took place at the historical resort area of Korea Kyongju June 28 July 3 1999 It also includes articles by some invited mathematicians who were unable to attend the conference Over 90 mathematicians from 12 countries attended this conference The conference is held every 4 years on a rotating basis The first conference was held in 1991 at Guilin China In 1995 the second conference took place in Okayama Japan At the second conference it was decided to include Korea who hosted this conference of 1999 During the past century Ring Theory has diversified into many subareas This is reflected in these articles from over 25 well known mathematicians covering a broad range of topics including Classical Ring Theory Module Theory Representation Theory and the theory of Hopf Algebras Among these peer reviewed papers are invited survey articles as well as research articles The survey articles provide an overview of various areas for researchers looking for a new or related field to investigate while the research articles give the flavor of current research We feel that the variety of related topics will stimulate interaction between researchers Moreover the Open Problems section provides guidance for future research This book should prove attractive to a wide audience of algebraists

Gary F Birkenmeier Lafayette U S A **Advances In Ring Theory - Proceedings Of The 4th China-japan-korea International Conference** Jianlong Chen, Nanqing Ding, Hidetoshi Marubayashi, 2005-08-22 The selected papers in this volume cover all the most important areas of ring theory and module theory such as classical ring theory representation theory the theory of quantum groups the theory of Hopf algebras the theory of Lie algebras and Abelian group theory The review articles written by specialists provide an excellent overview of the various areas of ring and module theory ideal for researchers looking for a new or related field of study Also included are original articles showing the trend of current research

Proceedings Of The Mathematics Conference Fathi Allen, Mohammad Saleh, Saber N Elaydi, Abid Elkhader, T Mughrabi, 2000-04-12 This volume covers topics ranging from pure and applied mathematics to pedagogical issues in mathematics There are papers in mathematical biology differential equations difference equations dynamical systems orthogonal polynomials topology calculus reform algebra and numerical analysis Most of the papers include new interesting results that are at the cutting edge of the respective subjects However there are some papers of an expository nature

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