⊕-s-extending modules

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Abstract

The concept ⊕-s-extending modules will be purpose of this paper, a module M is ⊕-s-extending if each submodule in M is essential in submodule has a supplement that is direct summand. Initially, we give relation between this concept with weakly supplement extending modules and ⊕-supplemented modules. In fact, we gives the following implications:

Lifting modules ⟹ ⊕-supplemented modules ⟹ ⊕-s-extending modules ⟹ weakly supplement extending modules.

It is also we give examples show that, the converse of this result is not true. Moreover, we study when the converse of this result is true.

Keyword: Extending modules, weakly supplement extending modules, ⊕-supplemented modules, ⊕-s-extending modules.

1. Introduction

In this paper, motivated by the concept of closed ⊕-supplemented that is, a module M is called closed ⊕-supplemented, if each closed submodule in M has a supplement which is direct summand, and weakly supplement extending module we give concept that is ⊕-s-extending module, a module M is ⊕-s-extending if each submodule in M is essential in submodule has a supplement which is direct summand. We can answer the question: When is the ⊕-s-extending module inherited by direct summand.

Following [1]. Studied a weakly supplement extending modules, a module M is called weakly supplement extending if each submodule in M is essential in weakly supplement submodule in M. Also, ⊕-supplemented module were studied by [2]. A module M is ⊕-supplemented, if for any submodule N in M has a supplement which is

Extending Modules

Padhraic Smyth

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   Extending Modules Nguyen Viet Dung,Dinh Van Huynh,Patrick F Smith,Robert Wisbauer,2019-01-22 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   *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   **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 *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 essental 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 undergradate students *Advances in Ring Theory* Surender Kumar Jain,S. Tariq Rizvi,1997 Presenting current developments and trends in ring theory this text highlights newer techniques as well as those that are more established **Extending Modules** Viet Dung Nguyen,1994 **CMUC** ,2016 Journal of Zhejiang University ,2007 **Vietnam Journal of Mathematics** ,2004 *Mathematical Reviews* ,2008 **Extending Modules** Nguyen Viet Dung,Robert Wisbauer,Patrick F. Smith,1994-11-01 **Proceedings of the ... Symposium on Ring Theory** ,1993 Kyungpook Mathematical Journal ,2008 **Mathematica Japonicae** ,1984 ACM Transactions on Programming Languages and Systems Association for Computing Machinery,1995 Very Large Data Bases Mario Schkolnick,C. Thanos,1983 Abstracts of Papers Presented to the American Mathematical Society American Mathematical Society,1995 *Communications de la Faculté des sciences de l'Université d'Ankara* Ankara Üniversitesi. Fen Fakültesi,2002 *Mathematica Scandinavica* ,2006

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