Mathematics Mat0511 Module

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the theory of d modules is a rich area of study combining ideas from algebra and differential equations and it has significant applications to diverse areas such as singularity theory and representation theory this book introduces d modules and their applications avoiding all unnecessary technicalities the author takes an algebraic approach

concentrating on the role of the weyl algebra the author assumes very few prerequisites and the book is virtually self contained the author includes exercises at the end of each chapter and gives the reader ample references to the more advanced literature this is an excellent introduction to d modules for all who are new to this area

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

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

this book provides a comprehensive exposition of the use of set theoretic methods in abelian group theory module theory and homological algebra including applications to whitehead s problem the structure of ext and the existence of almost free modules over non perfect rings this second edition is completely revised and udated to include major developments in the decade since the first edition among these are applications to cotorsion theories and covers including a proof of the flat cover conjecture as well as the use of shelah s pcf theory to constuct almost free groups as with the first edition the book is largely self contained and designed to be accessible to both graduate students and researchers in both algebra and logic they will find there an introduction to powerful techniques which they may find useful in their own work

this book is an introduction to module theory for the reader who knows something about linear algebra and ring theory its main aim is the derivation of the structure theory of modules over euclidean domains this theory is applied to obtain the structure of abelian groups and the rational canonical and jordan normal forms of matrices the basic facts about rings and modules are given in full generality so that some further topics can be discussed including projective modules and the connection between modules and representations of groups the book is intended to serve as supplementary reading for the third or fourth year undergraduate who is taking a course in module theory the further topics point the way to some projects that might be attempted in conjunction with a taught course

the original title of this work translated as foundation of algebraic analysis kashiwara kyoto u japan changed the title to more precisely reflect the nature of the text s contents and to signal his belief that the microlocal point of view helps concrete calculations as powerfully as the cauchy integral formula provides the values of many definite integrals chapters cover basic properties of d modules characteristic varieties construction of d modules their functorial properties regular holonomic systems b functions ring of formal microdifferential operators microlocal analysis of holonomic systems and microlocal calculus of b functions translated from the japanese work daisu kaiseki gairon 2000 annotation copyrighted by book news inc portland or

the idea of writing this book came roughly at the time of publication of my graduate text lectures on modules and rings springer gtm vol 189 1999 since that time teaching

obligations and intermittent intervention of other projects caused prolonged delays in the work on this volume only a lucky break in my schedule in 2006 enabled me to put the finishing touches on the completion of this long overdue book this book is intended to serve a dual purpose first it is designed as a problem book for lectures as such it contains the statements and full solutions of the many exercises that appeared in lectures second this book is also offered as a reference and repository for general information in the theory of modules and rings that may be hard to find in the standard textbooks in the field as a companion volume to lectures this work covers the same math ematical material as its parent work namely the part of ring theory that makes substantial use of the notion of modules the two books thus share the same table of contents with the first half treating projective injective and flat modules homological and uniform dimensions and the second half dealing with noncommutative localizations and goldie s theorems maximal rings of quotients frobenius and quasi frobenius rings conclud ing with morita s theory of category equivalences and dualities

d modules continues to be an active area of stimulating research in such mathematical areas as algebraic analysis differential equations and representation theory key to d modules perverse sheaves and representation theory is the authors essential algebraic analytic approach to the theory which connects d modules to representation theory and other areas of mathematics to further aid the reader and to make the work as self contained as possible appendices are provided as background for the theory of derived categories and algebraic varieties the book is intended to serve graduate students in a classroom setting and as self study for researchers in algebraic geometry representation theory

a collection of articles embodying the work presented at the 1991 methods in module theory conference at the university of colorado at colorado springs facilitating the explanation and cross fertilization of new techniques that were developed to answer a variety of module theoretic questions

module theory is a fundamental area of algebra taught in most universities at the graduate level this textbook written by two experienced teachers and researchers in the area is based on courses given in their respective universities over the last thirty years it is an accessible and modern account of module theory meant as a textbook for graduate or

advanced undergraduate students though it can also be used for self study it is aimed at students in algebra or students who need algebraic tools in their work following the recent trends in the area the general approach stresses from the start the use of categorical and homological techniques the book includes self contained introductions to category theory and homological algebra with applications to module theory and also contains an introduction to representations of quivers it includes a very large number of examples of all kinds worked out in detail mostly of abelian groups modules over matrix algebras polynomial algebras or algebras given by bound quivers in order to help visualise and analyse examples it includes many figures each section is followed by exercises of all levels of difficulty both computational and theoretical with hints provided to some of them

this textbook is a modern and accessible account of module theory and is intended for a graduate course on the topic written by two specialists it is addressed to graduate students in algebra or to students who need algebraic tools in their work it features a large number of examples worked out in detail figures and exercises

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