

Algebra: Rings, Modules and Categories I (Grundlehren der mathematischen Wissenschaften)

By Carl Faith



Algebra: Rings, Modules and Categories I (Grundlehren der mathematischen Wissenschaften) By Carl Faith

VI of Oregon lectures in 1962, Bass gave simplified proofs of a number of "Morita Theorems", incorporating ideas of Chase and Schanuel. One of the Morita theorems characterizes when there is an equivalence of categories mod-A R::! mod-B for two rings A and B. Morita's solution organizes ideas so efficiently that the classical Wedderburn-Artin theorem is a simple consequence, and moreover, a similarity class [AJ in the Brauer group Br(k) of Azumaya algebras over a commutative ring k consists of all algebras B such that the corresponding categories mod-A and mod-B consisting of k-linear morphisms are equivalent by a k-linear functor. (For fields, Br(k) consists of similarity classes of simple central algebras, and for arbitrary commutative k, this is subsumed under the Azumaya [51]1 and Auslander-Goldman [60J Brauer group.) Numerous other instances of a wedding of ring theory and category (albeit a shot gun wedding!) are contained in the text. Furthermore, in. my attempt to further simplify proofs, notably to eliminate the need for tensor products in Bass's exposition, I uncovered a vein of ideas and new theorems lying wholely within ring theory. This constitutes much of Chapter 4 -the Morita theorem is Theorem 4. 29-and the basis for it is a corre spondence theorem for projective modules (Theorem 4. 7) suggested by the Morita context. As a by-product, this provides foundation for a rather complete theory of simple Noetherian rings-but more about this in the introduction.



Download Algebra: Rings, Modules and Categories I (Grundleh ...pdf



Read Online Algebra: Rings, Modules and Categories I (Grundl ...pdf

Algebra: Rings, Modules and Categories I (Grundlehren der mathematischen Wissenschaften)

By Carl Faith

Algebra: Rings, Modules and Categories I (Grundlehren der mathematischen Wissenschaften) By Carl Faith

VI of Oregon lectures in 1962, Bass gave simplified proofs of a number of "Morita Theorems", incorporating ideas of Chase and Schanuel. One of the Morita theorems characterizes when there is an equivalence of categories mod-A R::! mod-B for two rings A and B. Morita's solution organizes ideas so efficiently that the classical Wedderburn-Artin theorem is a simple consequence, and moreover, a similarity class [AJ in the Brauer group Br(k) of Azumaya algebras over a commutative ring k consists of all algebras B such that the corresponding categories mod-A and mod-B consisting of k-linear morphisms are equivalent by a k-linear functor. (For fields, Br(k) consists of similarity classes of simple central algebras, and for arbitrary commutative k, this is subsumed under the Azumaya [51]1 and Auslander-Goldman [60] Brauer group.) Numerous other instances of a wedding of ring theory and category (albeit a shot gun wedding!) are contained in the text. Furthermore, in. my attempt to further simplify proofs, notably to eliminate the need for tensor products in Bass's exposition, I uncovered a vein of ideas and new theorems lying wholely within ring theory. This constitutes much of Chapter 4 -the Morita theorem is Theorem 4. 29-and the basis for it is a corre spondence theorem for projective modules (Theorem 4. 7) suggested by the Morita context. As a byproduct, this provides foundation for a rather complete theory of simple Noetherian rings-but more about this in the introduction.

Algebra: Rings, Modules and Categories I (Grundlehren der mathematischen Wissenschaften) By Carl Faith Bibliography

Sales Rank: #5331413 in Books
Published on: 2012-03-08
Released on: 2012-03-08
Original language: English

• Number of items: 1

• Dimensions: 9.25" h x 1.34" w x 6.10" l, 1.80 pounds

• Binding: Paperback

• 568 pages

Download Algebra: Rings, Modules and Categories I (Grundleh ...pdf

Read Online Algebra: Rings, Modules and Categories I (Grundl ...pdf

Download and Read Free Online Algebra: Rings, Modules and Categories I (Grundlehren der mathematischen Wissenschaften) By Carl Faith

Editorial Review

Users Review

From reader reviews:

Julia Hale:

The experience that you get from Algebra: Rings, Modules and Categories I (Grundlehren der mathematischen Wissenschaften) is the more deep you excavating the information that hide within the words the more you get serious about reading it. It doesn't mean that this book is hard to be aware of but Algebra: Rings, Modules and Categories I (Grundlehren der mathematischen Wissenschaften) giving you thrill feeling of reading. The article writer conveys their point in certain way that can be understood simply by anyone who read this because the author of this publication is well-known enough. This specific book also makes your vocabulary increase well. That makes it easy to understand then can go along with you, both in printed or e-book style are available. We highly recommend you for having this specific Algebra: Rings, Modules and Categories I (Grundlehren der mathematischen Wissenschaften) instantly.

Luther Brown:

The publication with title Algebra: Rings, Modules and Categories I (Grundlehren der mathematischen Wissenschaften) has lot of information that you can discover it. You can get a lot of help after read this book. That book exist new understanding the information that exist in this book represented the condition of the world currently. That is important to yo7u to find out how the improvement of the world. This specific book will bring you throughout new era of the glowbal growth. You can read the e-book on your smart phone, so you can read the idea anywhere you want.

Lorenzo McAvoy:

Don't be worry when you are afraid that this book will probably filled the space in your house, you will get it in e-book means, more simple and reachable. This particular Algebra: Rings, Modules and Categories I (Grundlehren der mathematischen Wissenschaften) can give you a lot of friends because by you taking a look at this one book you have thing that they don't and make a person more like an interesting person. This specific book can be one of one step for you to get success. This publication offer you information that perhaps your friend doesn't learn, by knowing more than different make you to be great folks. So , why hesitate? We need to have Algebra: Rings, Modules and Categories I (Grundlehren der mathematischen Wissenschaften).

Josephine Weeks:

Reserve is one of source of expertise. We can add our expertise from it. Not only for students but also native

or citizen require book to know the update information of year to help year. As we know those guides have many advantages. Beside many of us add our knowledge, could also bring us to around the world. Through the book Algebra: Rings, Modules and Categories I (Grundlehren der mathematischen Wissenschaften) we can consider more advantage. Don't that you be creative people? To become creative person must prefer to read a book. Just simply choose the best book that acceptable with your aim. Don't become doubt to change your life at this time book Algebra: Rings, Modules and Categories I (Grundlehren der mathematischen Wissenschaften). You can more appealing than now.

Download and Read Online Algebra: Rings, Modules and Categories I (Grundlehren der mathematischen Wissenschaften) By Carl Faith #ZSVD8FLONPT

Read Algebra: Rings, Modules and Categories I (Grundlehren der mathematischen Wissenschaften) By Carl Faith for online ebook

Algebra: Rings, Modules and Categories I (Grundlehren der mathematischen Wissenschaften) By Carl Faith Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Algebra: Rings, Modules and Categories I (Grundlehren der mathematischen Wissenschaften) By Carl Faith books to read online.

Online Algebra: Rings, Modules and Categories I (Grundlehren der mathematischen Wissenschaften) By Carl Faith ebook PDF download

Algebra: Rings, Modules and Categories I (Grundlehren der mathematischen Wissenschaften) By Carl Faith Doc

Algebra: Rings, Modules and Categories I (Grundlehren der mathematischen Wissenschaften) By Carl Faith Mobipocket

Algebra: Rings, Modules and Categories I (Grundlehren der mathematischen Wissenschaften) By Carl Faith EPub