

1. Record Nr.	UNINA9910779281903321
Titolo	Contemporary Ring Theory 2011 [[electronic resource] ] : proceedings Of the sixth China-Japan-Korea International Conference on ring theory // editors, Jin Yong Kim ... [et al.]
Pubbl/distr/stampa	Toh Tuck Link, Singapore, : World Scientific, 2012
ISBN	981-4397-68-7
Descrizione fisica	1 online resource (258 p.)
Altri autori (Persone)	KimJin Yong
Disciplina	510 512.4
Soggetti	Rings (Algebra)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Preface; Organizing Committees; Participants; Program; CONTENTS; Invited Lectures; RINGS OVER WHICH POLYNOMIAL RINGS ARE NI Juncheol Han, Yang Lee, and Sung Pil Yang; 1. Ring Theory; 2. Basic Properties of Polynomial-NI Rings; References; THE GALOIS MAP AND ITS INDUCED MAPS George Szeto and Lianyong Xue; 1. Introduction; 2. Basic Definitions and Notations; 3. Maps Induced by the Galois Map; 4. The Galois Map; References; NOTES ON WEAKLY d-KOSZUL MODULES Jiafeng Lu and Xiaolan Yu; 1. Introduction; 2. The Proofs of Theorems 1.1 and 1.2; 3. The Proof of Theorem 1.3; References AN EXTENSION OF RINGS AND HOCHSCHILD 2-COCYCLES M. Tamer Kosan, Tsiu-Kwen Lee, and Yiqiang Zhou1. The ring $H_n(R; \sigma)$ ; 2. Reversible and symmetric rings; 3. Armendariz rings; 4. Abelian rings and uniquely clean rings; References; WHEN DO THE DIRECT SUMS OF MODULES INHERIT CERTAIN PROPERTIES? Gangyong Lee, S. Tariq Rizvi, and Cosmin Roman; 1. Introduction; 2. Injectivity and some of its generalizations; 3. Baer, quasi-Baer, and Rickart modules; 4. Direct sums of Baer and quasi-Baer modules; 5. Direct sums of Rickart modules; 6. Free Rickart and free Baer modules; References NOTES ON SIMPLE-BAER MODULES AND RINGS Lixin Mao1. Introduction; 2. Main results; References; A NOTE ON QUASI-JOHNS RINGS Liang Shen; 1. Introduction; 2. Results; References; VON NEUMANN REGULAR RINGS SATISFYING GENERALIZED ALMOST

COMPARABILITY Mamoru Kutami; 1. Introduction; 2. Notations and definitions; 3. Generalized almost comparability; References; A NEW PSEUDORANDOM NUMBER GENERATOR AST Huiling Song; 1. Introduction; 2. Construction using Artin-Schreier towers; 2.1. Recursive structures for  $p = 3$  using an Artin-Schreier tower; 2.2. Multiplication algorithm for  $p = 3$   
 3. Linear recurrence equations on finite fields  
 4. Pseudorandom number generators for  $p = 2$ ; 4.1. TGFSR; 4.2. MT; 4.3. AST for  $p = 2$ ; 5. AST for  $p = 3$ ; 6. Concluding remarks; References; A NOTE ON PRIME RINGS WITH LEFT DERIVATIONS Nadeem ur Rehman; 1. Introduction; 2. Main results; References; ON RINGS IN WHICH EVERY IDEAL IS PRIME Hisaya Tsutsui; 1. Introduction; 2. Four basic theorems on fully prime rings (from Blair-Tsutsui [1]); 3. Right Noetherian fully prime rings; References  
 SOME COMMUTATIVITY THEOREMS CONCERNING ADDITIVE MAPPINGS AND DERIVATIONS ON SEMIPRIME RINGS Shakir Ali, Basudeb Dhara, and Ajda Fosner  
 1. Introduction; 2. Preliminaries; 3. The Results; References; STUDY ON THE ALGEBRAIC STRUCTURES IN TERMS OF GEOMETRY AND DEFORMATION THEORY Fumiya Suenobu and Fujio Kubo; 1. Introduction; 2. Closest associative algebra structures; 2.1. The set of structure constants of associative algebras; 2.2. Expression of  $C$  We parameterize  $C$  in the case of  $n = 2$ ; 2.3. Definition of the distance between the multiplications; 2.4. The closest associative structure  
 2.5. Example of the closest associative algebra structure

---

Sommario/riassunto

The study of noncommutative rings is a major area in modern algebra. The structure theory of noncommutative rings was originally concerned with three parts: The study of semi-simple rings; the study of radical rings; and the construction of rings with given radical and semi-simple factor rings. Recently, this has extended to many new parts: The zero-divisor theory, containing the study of coefficients of zero-dividing polynomials and the study of annihilators over noncommutative rings, that is related to the Kothe's conjecture; the study of nil rings and Jacobson rings; the study of applying  $r$

---