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this softcover reprint of the 1974 english translation of the first three chapters of bourbaki s algebre gives a thorough exposition of the fundamentals of general linear and multilinear algebra the first chapter introduces the basic objects such as groups and rings the second chapter studies the properties of modules and linear maps and the third chapter discusses algebras especially tensor algebras

this is the first in a series of three volumes dealing with important topics in algebra it offers an introduction to the foundations of mathematics together with the fundamental algebraic structures namely groups rings fields and arithmetic intended as a text for undergraduate and graduate students of mathematics it discusses all major topics in algebra with numerous motivating illustrations and exercises to enable readers to acquire a good understanding of the basic algebraic structures which they can then use to find the exact or the most realistic solutions to their problems

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this is the first of two volumes of a state of the art survey article collection which originates from three commutative algebra sessions at the 2009 fall southeastern american mathematical society meeting at florida atlantic university the articles reach into diverse areas of commutative algebra and build a bridge between noetherian and non noetherian commutative algebra these volumes present current trends in two of the most active areas of commutative algebra non noetherian rings factorization ideal theory integrality and noetherian rings the local theory graded situation and interactions with combinatorics and geometry this volume contains combinatorial and homological surveys the combinatorial papers document some of the increasing focus in commutative algebra recently on the interaction between algebra and combinatorics specifically one can use combinatorial techniques to investigate resolutions and other algebraic structures as with the papers of fløystad on boij söderburg theory of geramita harbourne and migliore and of cooper on hilbert functions of clark on minimal poset resolutions and of mermin on simplicial resolutions one can also utilize algebraic invariants to understand combinatorial structures like graphs hypergraphs and simplicial complexes such as in the paper of morey and villarreal on edge ideals homological techniques have become indispensable tools for the study of noetherian rings these ideas have yielded amazing levels of interaction with other fields like algebraic topology via differential graded techniques as well as the foundations of homological algebra analysis via the study of d modules and combinatorics as described in the previous paragraph the homological articles the editors have included in this volume relate mostly to how homological techniques help us better understand rings and singularities both noetherian and non noetherian such as in the papers by roberts yao hummel and leuschke

nctm past president cathy I seeley shares her messages on today s most relevant topics and issues in education based on cathy I seeley s award winning nctm president s messages and including dozens of new messages this must have k 12 resource offers straight talk and common sense about some of today s most important thought provoking issues in education with topics ranging from the impact of rising expectations and the trap of timed tests to the role of technology and the phenomenon of jumping on bandwagons this book provides a base for lively discussion among elementary middle and high school teachers leaders policy makers and families this book contains 41 messages included in three sections I school mathematics for the 21st century elementary and secondary mathematics in america 2 great ideas whose time has come and gone mathematics issues facing schools

and districts and 3 real students and real teachers mathematics in today s classroom this book also contains the following 1 foreword by marilyn burns 2 introduction 3 how to use this book 4 afterword the sum of the parts is greater than some of the parts 5 acknowledgments 6 readings and references 7 index and 8 about the author

mathematics curriculum which is often a focus in education reforms has not received extensive research attention until recently ongoing mathematics curriculum changes in many education systems call for further research and sharing of effective curriculum policies and practices that can help lead to the improvement of school education this book provides a unique international perspective on diverse curriculum issues and practices in different education systems offering a comprehensive picture of various stages along curriculum transformation from the intended to the achieved and showing how curriculum changes in various stages contribute to mathematics teaching and learning in different educational systems and cultural contexts the book is organized to help readers learn not only from reading individual chapters but also from reading across chapters and sections to explore broader themes including identifying what is important in mathematics for teaching and learning in different education systems understanding mathematics curriculum and its changes that are valued over time in different education systems identifying and analyzing effective curriculum practices probing effective infrastructure for curriculum development and implementation mathematics curriculum in school education brings new insights into curriculum policies and practices to the international community of mathematics education with 29 chapters and four section prefaces contributed by 56 scholars from 14 different education systems this rich collection is indispensable reading for mathematics educators researchers curriculum developers and graduate students interested in learning about recent curriculum development research and practices in different education systems it will help readers to reflect on curriculum policies and practices in their own education systems and also inspire them to identify and further explore new areas of curriculum research for improving mathematics teaching and learning

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