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## **Exploring Education**

This much-anticipated fifth edition of Exploring Education offers an alternative to traditional foundations texts by combining a point-of-view analysis with primary source readings. Pre- and in-service teachers will find a solid introduction to the foundations disciplines -- history, philosophy, politics, and sociology of education -- and their application to educational issues, including school organization and teaching, curriculum and pedagogic practices, education and inequality, and school reform and improvement. This edition features substantive updates, including additions to the discussion of neo-liberal educational policy, recent debates about teacher diversity, updated data and research, and new selections of historical and contemporary readings. At a time when foundations of education are marginalized in many teacher education programs and teacher education reform pushes scripted approaches to curriculum and instruction, Exploring Education helps teachers to think critically about the "what" and "why" behind the most pressing issues in contemporary education.

## **International Handbook of Research in Arts Education**

Providing a distillation of knowledge in the various disciplines of arts education (dance, drama, music, literature and poetry and visual arts), this essential handbook synthesizes existing research literature, reflects on the past, and contributes to shaping the future of the respective and integrated disciplines of arts education. While research can at times seem distant from practice, the Handbook aims to maintain connection with the live practice of art and of education, capturing the vibrancy and best thinking in the field of theory and practice. The Handbook is organized into 13 sections, each focusing on a major area or issue in arts education research.

## **IEEE Guide for Design of Substation Rigid-bus Structures**

Rigid-bus structures for outdoor and indoor, air-insulated, and alternating-current substations are covered. Portions of this guide are also applicable to strain-bus structures or direct-current substations, or both. Ampacity, radio influence, vibration, and forces due to gravity, wind, fault current, and thermal expansion are considered. Design criteria for conductor and insulator strength calculations are included.

## **Multiplying Inequalities**

This report examines the distribution of science and mathematics learning opportunities in the nation's elementary and secondary schools.

## **Creative (Climate) Communications**

Through this assessment of creative (climate) communications, readers will understand what works where, when, why and under what conditions.

## **Teacher professionalization and teacher commitment a multilevel analysis**

Acclaimed African American scholar and teacher educator Gloria Ladson-Billings examines the field of teacher education through the accomplishments and contributions of well-known African American teacher educators—Lisa Delpit, Carl Grant, Jacqueline Jordan Irvine, Geneva Gay, Cherry McGee Banks, William Tate, and Joyce King. Using in-depth interviews and storytelling, Ladson-Billings depicts deeply personal portraits of these scholars' experiences to confront race and racism, not only theoretically, but within their everyday professional lives in "the Big House" of the academy. Ladson-Billings gives these portraits even greater resonance and meaning by pairing these teacher educators with historical figures—such as Harriet Tubman, Nat Turner, and Charlotte Forten—whose contributions to the struggle for social justice are a wellspring of hope and courage to all educators, and a tribute to African Americans whose political, scientific, and spiritual efforts made life better for us all. This compelling book is important reading for all educators who want to transform teacher education for the better. "The American Association of Colleges for Teacher Education is enthused and excited about Ladson-Billings's dynamic and provoking scholarship. Its focus on outstanding African American teacher educators is a major contribution to teacher education literature. This cutting-edge research is likely to prompt some of the best of unconventional teacher education thought." —David G. Imig, President and CEO, American Association of Colleges for Teacher Education "In this moving and original book, Gloria Ladson-Billings offers complex insights about the politics of scholarship, the experiences of scholars of color in universities, and the larger enterprise of teaching and teacher education for social justice." —Marilyn Cochran-Smith, Lynch School of Education, Boston College and President of the American Educational Research Association (AERA) for 2004–05.

## **Education Research in the Public Interest**

Symplectic geometry is a central topic of current research in mathematics. Indeed, symplectic methods are key ingredients in the study of dynamical systems, differential equations, algebraic geometry, topology, mathematical physics and representations of Lie groups. This book is a true introduction to symplectic geometry, assuming only a general background in analysis and familiarity with linear algebra. It starts with the basics of the geometry of symplectic vector spaces. Then, symplectic manifolds are defined and explored. In addition to the essential classic results, such as Darboux's theorem, more recent results and ideas are also included here, such as symplectic capacity and pseudoholomorphic curves. These ideas have revolutionized the subject. The main examples of symplectic manifolds are given, including the cotangent bundle, Kähler manifolds, and coadjoint orbits. Further principal ideas are carefully examined, such as Hamiltonian vector fields, the Poisson bracket, and connections with contact manifolds. Berndt describes some of the close connections between symplectic geometry and mathematical physics in the last two chapters of the book. In particular, the moment map is defined and explored, both mathematically and in its relation to physics. He also introduces symplectic reduction, which is an important tool for reducing the number of variables in a physical system and for constructing new symplectic manifolds from old. The final chapter is on quantization, which uses symplectic methods to take classical mechanics to quantum mechanics. This section includes a discussion of the Heisenberg group and the Weil (or metaplectic) representation of the symplectic group. Several appendices provide background material on vector bundles, on cohomology, and on Lie groups and Lie algebras and their representations. Berndt's presentation of symplectic geometry is a clear and concise introduction to the major methods and applications of the subject, and requires only a minimum of prerequisites. This book would be an excellent text for a graduate course or as a source for anyone who wishes to learn about symplectic geometry.

## **An Introduction to Symplectic Geometry**

This book is about harmonic functions in Euclidean space. This new edition contains a completely rewritten chapter on spherical harmonics, a new section on extensions of Bochner's Theorem, new exercises and proofs, as well as revisions throughout to improve the text. A unique software package supplements the text for readers who wish to explore harmonic function theory on a computer.

## **Harmonic Function Theory**

This book constructs the kernels of integral transforms by solving the generalized Sturm-Liouville problems associated with the partial differential equations at hand. In the first part of the book, the authors construct the kernels and use them to solve elementary problems of mathematical physics. This part requires little mathematical background and provides an introduction to the subject of integral transforms as it proceeds mainly by examples and includes a variety of exercises. In the second part of the book, the method of integral transforms is used to solve modern applied problems in convective stability, temperature fields in oil strata, and eddy-current testing. The choice of topics reflects the authors' research experience and involvement in industrial applications. The first part of the book is accessible to undergraduates, while the second part is aimed at graduate students and researchers. Because of the applications, the book will interest engineers (especially petroleum engineers) and physicists.

## **The Constitution of Zambia**

As requested by the National Science Foundation (NSF) and the Interagency Committee for Extramural Mathematics Programs (ICEMAP), this report updates the 1984 Report known as the "David Report." Specifically, the charge directed the committee to (1) update that report, describing the infrastructure and support for U.S. mathematical sciences research; (2) assess trends and progress over the intervening five years against the recommendations of the 1984 Report; (3) briefly assess the field scientifically and identify significant opportunities for research, including cross-disciplinary collaboration; and (4) make appropriate recommendations designed to ensure that U.S. mathematical sciences research will meet national needs in coming years. Of the several components of the mathematical sciences community requiring action, its wellspring--university research departments--is the primary focus of this report. The progress and promise of research--described in the 1984 Report relative to theoretical development, new applications, and the refining and deepening of old applications--have if anything increased since 1984, making mathematics research ever more valuable to other sciences and technology. Although some progress has been made since 1984 in the support for mathematical sciences research, the goals set in the 1984 Report have not been achieved. Practically all of the increase in funding has gone into building the infrastructure, which had deteriorated badly by 1984. While graduate and postdoctoral research, computer facilities, and new institutes have benefited from increased resources, some of these areas are still undersupported by the standards of other sciences. And in the area of research support for individual investigators, almost no progress has been made. A critical shortage of qualified mathematical sciences researchers still looms, held at bay for the moment by a large influx of foreign researchers, an uncertain solution in the longer term. While government has responded substantially to the 1984 Report's recommendations, particularly in the support of infrastructure, the universities generally have not, so that the academic foundations of the mathematical sciences research enterprise are as shaky now as in 1984. The greatest progress has been made in the mathematics sciences community, whose members have shown a growing awareness of the problems confronting their discipline and increased interest in dealing with the problems, particularly in regard to communication with the public and government agencies and involvement in education. (AA)

## **Applied Integral Transforms**

These groundbreaking essays have become foundational to the field of curriculum studies. The contributors are curriculum theorists who represent an avant-garde of the movement.

## **Environmental Screening Guidelines**

This concise treatment embraces, in four parts, all the main aspects of theoretical physics. Recent topics such as holography and quantum cryptography are included. The book summarizes what a graduate student, physicist working in industry, or a physics teacher should master during his or her degree course. It will also be useful for deepening one's insight and it adds new dimensions to understanding of these elemental

concepts.

## **C95.1-1999 Edition IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 Khz to 300 Ghz**

This volume is based on PDE courses given by the authors at the Courant Institute and at the University of Notre Dame, Indiana. Presented are basic methods for obtaining various a priori estimates for second-order equations of elliptic type with particular emphasis on maximal principles, Harnack inequalities, and their applications. The equations considered in the book are linear; however, the presented methods also apply to nonlinear problems.

## **Renewing U.S. Mathematics**

In *Teaching Democracy*, Walter Parker makes a unique and thoughtful contribution to the hot debate between proponents of multicultural education and those who favor a cultural literacy approach. Parker conclusively demonstrates that educating for democratic citizenship in a multicultural society includes a fundamental respect for diversity. This scholarly yet accessible work: Bridges the widening gap between multicultural education and civic education. Provides powerful teaching strategies that educators can use to draw children creatively and productively into a way of life that protects and nurtures cultural pluralism and racial equity. Explains the unity–diversity confusion that is found in popular media as well as in multicultural– and citizenship–education initiatives. Defines deliberative discussion and explores its promise as the centerpiece of democratic education in schools, both elementary and secondary. “At a moment in time when our connection to the nation seems superficial and jingoistic, Walter Parker offers us a vehicle to reach our ideal of deliberative, committed civic participation for every citizen. This book explores the hard work of citizen-making in a diverse and complex society where individual and group interests often are in conflict. Parker makes us realize that in a democracy ‘public’ is not a dirty word and schooling should not be punishment.” —Gloria Ladson–Billings, University of Wisconsin, Madison “This book deals in an engaging and thought-provoking way with both social realities and democratic possibilities—exactly what I try to do in my classroom.” —Wendy Ewbank, teacher, Seattle Girls’ School

## **Curriculum Studies**

“Joseph F. Keithley, a modern pioneer of instrumentation, brings you a fascinating history of electrical measurement from the ancient Greeks to the inventors of the early twentieth century. Written in a direct and fluent style, the book illuminates the lives of the most significant inventors in the field, including George Simon Ohm, Andre Marie Ampere, and Jean Baptiste Fourier. Chapter by chapter, meet the inventors in their youth and discover the origins of their lifelong pursuits of electrical measurement. Not only will you find highlights of important technological contributions, you will also learn about the tribulations and excitement that accompany the discoveries of these early masters. Included are nearly 100 rare photographs from museums around the world. *THE STORY OF ELECTRICAL AND MAGNETIC MEASUREMENTS* is a “must read” for students and practitioners of physics, electrical engineering, and instrumentation and metrology who want to understand the history behind modern day instruments.” Sponsored by: IEEE Instrumentation and Measurement Society

## **Pumps, Valves and Compressors**

*How to Help Your School Thrive Without Breaking the Bank* will help you improve your school without investing in externally developed, expensive, and time-consuming reform programs or initiatives. It's packed with replicable strategies and practical tools that educators in any school can incorporate to transform the culture and improve student achievement and professional practice. You'll learn how to \* Hone your own leadership and grow new leaders among your staff; \* Develop a vision and a mission for your school; \*

Promote excellence among both staff and students; \* Make the most of your time and facilitate effective meetings; and \* Mine and use data with purpose. For most schools, times are tough and money is tight—but school leaders must still focus on how to steadily improve student achievement. Academic performance will improve in the long term only if your school has a healthy culture marked by integrity, a strong work ethic, collaboration, and reflective risk taking. Strengthening those foundational elements will help you sustain positive change in your school, even in difficult economic times. The good news is that you already have the resources you need to help your school thrive. This book will help you to maximize them.

## **Basic Theoretical Physics**

The 1960s revealed a new and revolutionary idea in geological thought: that the continents drift with respect to one another. After having been dismissed for decades as absurd, the concept gradually became part of geology's basic principles. We now know that the Earth's crust and upper mantle consist of a small number of rigid plates that move, and there are significant boundaries between pairs of plates, usually known as earthquake belts. Plate tectonics now explains much of the structure and phenomena we see today: how oceans form, widen, and disappear; why earthquakes and volcanoes are found in distinct zones which follow plate boundaries; how the great mountain ranges of the world were built. The impact of plate tectonics is studied closely as these processes continue: the Himalaya continues to grow, the Atlantic is widening, and new oceans are forming. In this Very Short Introduction Peter Molnar provides a succinct and authoritative account of the nature and mechanisms of plate tectonics and its impact on our understanding of Earth.

**ABOUT THE SERIES:** The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

## **Handbook of Signal Processing in Acoustics**

Nature tries to minimize the surface area of a soap film through the action of surface tension. The process can be understood mathematically by using differential geometry, complex analysis, and the calculus of variations. This book employs ingredients from each of these subjects to tell the mathematical story of soap films. The text is fully self-contained, bringing together a mixture of types of mathematics along with a bit of the physics that underlies the subject. The development is primarily from first principles, requiring no advanced background material from either mathematics or physics. Through the Maple applications, the reader is given tools for creating the shapes that are being studied. Thus, you can "see" a fluid rising up an inclined plane, create minimal surfaces from complex variables data, and investigate the "true" shape of a balloon. Oprea also includes descriptions of experiments and photographs that let you see real soap films on wire frames. The theory of minimal surfaces is a beautiful subject, which naturally introduces the reader to fascinating, yet accessible, topics in mathematics. Oprea's presentation is rich with examples, explanations, and applications. It would make an excellent text for a senior seminar or for independent study by upper-division mathematics or science majors.

## **Elliptic Partial Differential Equations**

Differentiated supervision is an approach to supervision that provides teachers with options about the kinds of supervisory and evaluative services they receive. The differentiated model provides intensive development to nontenured teachers and to tenured teachers with serious problems. The rest of the faculty receive options for fostering their professional development, working in collaborative teams or opting for a self-directed approach. This book describes a model of differentiated supervision and offers suggestions for its implementation. Chapter 1 presents a rationale for differentiated supervision and briefly describes its components. Chapter 2 explains the foundation elements needed by all teachers to make the model work effectively. The third chapter describes processes for fostering the learning-centered classroom, with a focus on learning outcomes. Chapters 4 through 6 explain how each of the following developmental options works:

providing intensive development; fostering cooperative professional development; and facilitating self-directed development. The seventh chapter focuses on the evaluative options in a differentiated system, which distinguishes between two types of evaluation--intensive evaluation and standard evaluation. The final chapter offers suggestions for developing local models appropriate to an individual district's needs and resources. Contains 11 figures and an appendix listing schools using the differentiated model. References accompany each chapter. (LMI)

## **Teaching Democracy**

Looking for advice and guidance on how to implement differentiated instruction throughout your school? Learn from the experts. Administrators and teachers alike will find viable ideas and answers to questions as leaders at two schools share milestones and vignettes from their real-life experiences in converting entire faculties to this dynamic approach to teaching and learning. The authors balance broadly applicable guidance with specific illustrations of how two schools—a middle-income elementary school and a mixed-income high school—experienced the change process in dramatically different ways. In both instances, the new approach to teaching and learning had sweeping, positive results for staff and students. Carol Ann Tomlinson, Kay Brimijoin, and Lane Narvaez have combined their expertise with differentiation in schools—including professional development, research, leadership, coaching, and teaching—to highlight factors that contributed to the continuing success of school reinvention efforts such as \*Approaching change with the particular school culture in mind. \*Leading a staff toward change with appropriate pushes, pauses, and acknowledgments. \*Fostering continued growth in understanding and skill with differentiation in the classroom. \*Encouraging teachers to reinforce one another's strengths. \*Monitoring progress toward expanded flexibility in instructional approaches. \*Nurturing teacher leaders who can sustain the effort beyond one principal's tenure. \*Providing strong support and role models for deep and broad changes in the school's teaching practices and learning potential. Every educator seeking to move beyond isolated efforts to differentiate instruction will find practical support and inspiration in this book. At the same time, you'll gain understanding about the key characteristics needed for deep, lasting instructional change that taps into the learning potential of all students in your classrooms and schools.

## **The Story of Electrical and Magnetic Measurements**

Emil Grosswald was a mathematician of great accomplishment and remarkable breadth of vision. This volume pays tribute to the span of his mathematical interests, which is reflected in the wide range of papers collected here. With contributions by leading contemporary researchers in number theory, modular functions, combinatorics, and related analysis, this book will interest graduate students and specialists in these fields. The high quality of the articles and their close connection to current research trends make this volume a must for any mathematics library.

## **How to Help Your School Thrive Without Breaking the Bank**

Motivated by some notorious open problems, such as the Jacobian conjecture and the tame generators problem, the subject of polynomial automorphisms has become a rapidly growing field of interest. This book, the first in the field, collects many of the results scattered throughout the literature. It introduces the reader to a fascinating subject and brings him to the forefront of research in this area. Some of the topics treated are invertibility criteria, face polynomials, the tame generators problem, the cancellation problem, exotic spaces, DNA for polynomial automorphisms, the Abhyankar-Moh theorem, stabilization methods, dynamical systems, the Markus-Yamabe conjecture, group actions, Hilbert's 14th problem, various linearization problems and the Jacobian conjecture. The work is essentially self-contained and aimed at the level of beginning graduate students. Exercises are included at the end of each section. At the end of the book there are appendices to cover used material from algebra, algebraic geometry, D-modules and Gröbner basis theory. A long list of "strong" examples and an extensive bibliography conclude the book.

## **Plate Tectonics: A Very Short Introduction**

Whilst learning is central to most understandings of what it is to be human, we now live in a knowledge society where being educated defines life chances more than ever before. *Learning Beyond the School* brings together accounts of learning from around the world in organisations, spaces and places that are schooled, but not school. Exploring examples of learning organisation, pedagogisation, informal learning and social education, the book shows not only how understandings of education are framed in terms of local versions of schooling, but what being educated could and should mean in very different social and political contexts. With contributions from scholars based in Australia, Europe, the USA, Latin America and Asia, the book brings together accounts of learning outside of school. Chapters contain rich and detailed case studies of innovative projects, new kinds of learning institutions, youth, peer-driven and community-based activities and public pedagogies, as well as engaging with the dimensions of an argument about the place and nature of learning outside of the school. It challenges dominant versions of school around the world, whilst also critically discussing the value and place of non-institutionalised learning. *Learning Beyond the School* should be of interest to academics, researchers, postgraduate scholars engaged in the study of comparative education, youth work, education systems, digital culture, sociology of education and youth development. It should also be essential reading for practitioners and policymakers who are interested in youth and education system reform.

## **The Mathematics of Soap Films: Explorations with Maple**

Questions that arose from linear programming and combinatorial optimization have been a driving force for modern polytope theory, such as the diameter questions motivated by the desire to understand the complexity of the simplex algorithm, or the need to study facets for use in cutting plane procedures. In addition, algorithms now provide the means to computationally study polytopes, to compute their parameters such as flag vectors, graphs and volumes, and to construct examples of large complexity. The papers of this volume thus display a wide panorama of connections of polytope theory with other fields. Areas such as discrete and computational geometry, linear and combinatorial optimization, and scientific computing have contributed a combination of questions, ideas, results, algorithms and, finally, computer programs.

## **National Occupational Hazard Survey: Data editing and data base development**

*Hyperbolic Manifolds and Discrete Groups* is at the crossroads of several branches of mathematics: hyperbolic geometry, discrete groups, 3-dimensional topology, geometric group theory, and complex analysis. The main focus throughout the text is on the "Big Monster," i.e., on Thurston's hyperbolization theorem, which has not only completely changes the landscape of 3-dimensional topology and Kleinian group theory but is one of the central results of 3-dimensional topology. The book is fairly self-contained, replete with beautiful illustrations, a rich set of examples of key concepts, numerous exercises, and an extensive bibliography and index. It should serve as an ideal graduate course/seminar text or as a comprehensive reference.

## **Differentiated Supervision**

In *Heartland Excursions*, a legendary ethnomusicologist takes the reader along for a delightful, wide-ranging tour of his workplace. Bruno Nettl provides an insightful, sometimes tongue-in-cheek, always pithy ethnography of midwestern university schools of music from a different perspective in each of four chapters, alternating among three distinct voices: the longtime professor, the "native informant," and the outside observer, an "ethnomusicologist from Mars." If you've ever been to a concert or been connected to a university with a school of music, you'll discover yourself--or someone you know--in these pages. "In the music building you can't tell the quick from the dead without a program."--Chapter 1, "In the Service of the Masters" "The great ability of a violin student whom I observed was established when his dean was persuaded to accompany him."--Chapter 2, "Society of Musicians" "Some teachers of music history would

accuse students who listen to Elvis Presley not only of taking time away from hearing Brahms, but also of polluting themselves."--Chapter 3, "A Place for All Musics?" At commencement, the graduates "were perhaps not aware that they had just participated in an event in which the principal values of the Western musical world . . . had been taken out of storage bins for annual exercise."--Chapter 4, "Forays into the Repertory"

## **The Differentiated School**

"This book covers some of the main aspects of nonlinear analysis. It concentrates on stressing the fundamental ideas instead of elaborating on the intricacies of the more esoteric ones...it encompass[es] many methods of dynamical systems in quite simple and original settings. I recommend this book to anyone interested in the main and essential concepts of nonlinear analysis as well as the relevant methodologies and applications." --MATHEMATICAL REVIEWS

## **A Tribute to Emil Grosswald**

Are we missing the opportunity to reach struggling learners from the very beginning? Are we hastily—and unnecessarily—referring students to intervention programs that substitute for high-quality core instruction? What if we could eliminate the need for intervention programs in the first place? Response to Intervention (RTI) programs are only as powerful and effective as the core instruction on which they're built. High-quality instruction, then, is the key ingredient that helps all students excel, and it's at the heart of Douglas Fisher and Nancy Frey's unique approach to the RTI model — Response to Instruction and Intervention, or RTI2. In *Enhancing RTI*, the authors argue that students learn best when classroom instruction and supplemental intervention mirror each other in both content and purpose. This book provides K-12 teachers with the knowledge and tools they need to implement a cohesive RTI2 system that helps all children learn by proactively addressing their needs. To this end, you will learn how to

- \* Integrate and align core instruction and supplemental intervention.
- \* Assess your own classroom instruction, in addition to your students' responses to it.
- \* Strengthen existing school improvement efforts within an RTI2 framework.
- \* Utilize systematic feedback to raise student achievement.

Fisher and Frey maintain that the RTI2 model not only promotes active student learning, but it also, when done right, promotes a culture of hardwired excellence at all levels of instruction.

## **Polynomial Automorphisms**

This book provides school administrators with practical, easy-to-use, and inexpensive ways to reward and recognize the efforts of their staff. More than 100 ideas are divided into three categories based on the amount of effort they require. Recognizing and rewarding your staff can be as simple as writing a heartfelt thank-you note to a bus driver or as unexpected as taking a teacher's grading duty for a night. This invaluable guide will help principals and superintendents everywhere bring out the best in their teachers and staff members. The best part is that rewarding and inspiring your staff will be rewarding and inspiring for you too. Dr. Emily E. Houck is the former superintendent of the Scott Valley Unified School District in California.

## **Learning Beyond the School**

Mathematics is the key to opportunity. No longer only the language of science, mathematics is now essential to business, finance, health, and defense. Yet because of the lack of mathematical literacy, many students are not prepared for tomorrow's jobs. *Everybody Counts* suggests solutions. Written for everyone concerned about our children's education, this book discusses why students in this country do not perform well in mathematics and outlines a comprehensive plan for revitalizing mathematics education in America, from kindergarten through college. single copy, \$8.95; 2-9 copies, \$7.50 each; 10 or more copies, \$6.95 each (no other discounts apply)



## Psychological Acoustics

This volume is the Proceedings of the Third Korea-China-Japan International Symposium on Ring Theory held jointly with the Second Korea Japan Joint Ring Theory Seminar which took place at the historical resort area of Korea, Kyongju, June 28-July 3, 1999. It also includes articles by some invited mathematicians who were unable to attend the conference. Over 90 mathematicians from 12 countries attended this conference. The conference is held every 4 years on a rotating basis. The first conference was held in 1991 at Guilin, China. In 1995 the second conference took place in Okayama, Japan. At the second conference it was decided to include Korea, who hosted this conference of 1999. During the past century Ring Theory has diversified into many subareas. This is reflected in these articles from over 25 well-known mathematicians covering a broad range of topics, including: Classical Ring Theory, Module Theory, Representation Theory, and the theory of Hopf Algebras. Among these peer reviewed papers are invited survey articles as well as research articles. The survey articles provide an overview of various areas for researchers looking for a new or related field to investigate, while the research articles give the flavor of current research. We feel that the variety of related topics will stimulate interaction between researchers. Moreover the Open Problems section provides guidance for future research. This book should prove attractive to a wide audience of algebraists. Gary F. Birkenmeier, Lafayette, U. S. A.

## Polytopes - Combinations and Computation

Hyperbolic Manifolds and Discrete Groups

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