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KEY=1 - AMIR SIENA

BROADENING THE SCOPE OF RESEARCH ON MATHEMATICAL PROBLEM SOLVING

A FOCUS ON TECHNOLOGY, CREATIVITY AND AFFECT

Springer **The innovative volume seeks to broaden the scope of research on mathematical problem solving in different educational environments. It brings together contributions not only from leading researchers, but also highlights collaborations with younger researchers to broadly explore mathematical problem-solving across many fields: mathematics education, psychology of education, technology education, mathematics popularization, and more. The volume's three major themes—technology, creativity, and affect—represent key issues that are crucially embedded in the activity of problem solving in mathematics teaching and learning, both within the school setting and beyond the school. Through the book's new pedagogical perspectives on these themes, it advances the field of research towards a more comprehensive approach on mathematical problem solving. Broadening the Scope of Research on Mathematical Problem Solving will prove to be a valuable resource for researchers and teachers interested in mathematical problem solving, as well as researchers and teachers interested in technology, creativity, and affect.**

DIVERSITY IN MATHEMATICS EDUCATION

TOWARDS INCLUSIVE PRACTICES

Springer **This book presents a research focus on diversity and inclusivity in mathematics education. The challenge of diversity, largely in terms of student profiles or contextual features, is endemic in mathematics education, and is often argued to require differentiation as a response. Typically different curricula, text materials, task structures or pedagogies are favoured responses, but huge differences in achievement still result. If we in mathematics education seek to challenge that status quo, more research must be focussed not just on diversity but also on the inclusivity, of practices in mathematics education. The book is written by a group of experienced collaborating researchers who share this focus. It is written for researchers, research students, teachers and in-service professionals, who recognise both the challenges but also the opportunities of creating and evaluating new inclusive approaches to curriculum and pedagogy – ones that take for granted the positive values of diversity. Several chapters report new research in this direction. The authors are part of, or have visited with, the mathematics education staff of the Faculty of Education at Monash University, in Melbourne, Australia. The chapters all focus on the ideas of development in both research and practice, recognising that the current need is for new inclusive approaches. The studies presented are set in different contexts, including Australia, China, the United States, and Singapore.**

MATHEMATICS FOR CHEMISTS

Contents - Preface - 1. REVIEW OF BASIC MATERIAL - FUNCTIONS, INEQUALITIES - 2. DIFFERENTIAL CALCULUS - 3. INTEGRATION - 4. FUNCTIONS OF MANY VARIABLES ; PARTIAL DIFFERENTIATION - 5. VECTORS - 6. SERIES, TAYLOR-MACLAURIN SERIES - 7. COMPLEX NUMBERS - 8. ORTHOGONAL FUNCTIONS AND FOURIER SERIES - 9. DETERMINANTS - 10. MATRICES - 11. DIFFERENTIAL EQUATIONS - 12. PARTIAL DIFFERENTIAL EQUATIONS - 13. NUMERICAL METHODS - 14. ELEMENTARY STATISTICS AND ERROR ANALYSIS - Problems for Solution - Bibliography - Answers to Problems - Index

JOURNAL OF NONLINEAR MATHEMATICAL PHYSICS VOL. 14

atlantis press

COMMUNICATING MATHEMATICS IN THE DIGITAL ERA

CRC Press **The digital era has dramatically changed the ways that researchers search, produce, publish, and disseminate their scientific work. These processes are still rapidly evolving due to improvements in information science, new achievements in computer science technologies, and initiatives such as DML and open access journals, digitization projects, sci**

THE CAHN–HILLIARD EQUATION: RECENT ADVANCES AND APPLICATIONS

SIAM **This is the first book to present a detailed discussion of both classical and recent results on the popular**

Cahn–Hilliard equation and some of its variants. The focus is on mathematical analysis of Cahn–Hilliard models, with an emphasis on thermodynamically relevant logarithmic nonlinear terms, for which several questions are still open. Initially proposed in view of applications to materials science, the Cahn–Hilliard equation is now applied in many other areas, including image processing, biology, ecology, astronomy, and chemistry. In particular, the author addresses applications to image inpainting and tumor growth. Many chapters include open problems and directions for future research. The Cahn–Hilliard Equation: Recent Advances and Applications is intended for graduate students and researchers in applied mathematics, especially those interested in phase separation models and their generalizations and applications to other fields. Materials scientists also will find this text of interest.

CRITICAL MATHEMATICS EDUCATION

CAN DEMOCRATIC MATHEMATICS EDUCATION SURVIVE UNDER NEOLIBERAL REGIME?

BRILL Critical Mathematics Education offers classroom-based data to illustrate the ways in which critical mathematics education comprises a response to the tension between the needs of a neoliberal system and the needs of individual students to fulfil their potential, as human beings and citizens.

UNCOVERING STUDENT THINKING ABOUT MATHEMATICS IN THE COMMON CORE, HIGH SCHOOL

Corwin Press Helping students master secondary school mathematics just got a whole lot easier! Bestselling authors Cheryl Rose Tobey and Carolyn B. Arline provide 25 detailed and grade-level specific assessment probes that promote deep learning and expert maths instruction. Learn to ask the right questions to uncover where and how students commonly get confused. You'll learn how to: Quickly diagnose students' common misconceptions and procedural mistakes Help students pinpoint areas of struggle Plan targeted instruction that builds on students' current understandings while addressing difficulties with algebra, functions, logarithms, geometry, trigonometric ratios, statistics and probability, and more Elicit the skills and processes related to the Standards for Mathematical Practices You'll find sample student responses, extensive Teacher Notes, and research-based tips and resources, as well as the QUEST Cycle for effective, hands-on implementation, to help instil new mathematical ideas. This is a great teaching resource with easy-to-implement tools and ideas to build solid mathematics proficiency.

FAR EAST JOURNAL OF MATHEMATICAL SCIENCES

FJMS.

PRINCIPIA MATHEMATICA

Cambridge University Press Principia Mathematica was first published in 1910-13; this is the ninth impression of the second edition of 1925-7. The Principia has long been recognised as one of the intellectual landmarks of the century. It was the first book to show clearly the close relationship between mathematics and formal logic. Starting from a minimal number of axioms, Whitehead and Russell display the structure of both kinds of thought. No other book has had such an influence on the subsequent history of mathematical philosophy.

INTERNATIONAL CONVERGENCE OF CAPITAL MEASUREMENT AND CAPITAL STANDARDS

A REVISED FRAMEWORK

Lulu.com

MATHEMATICS AND COMPUTATION IN MUSIC

6TH INTERNATIONAL CONFERENCE, MCM 2017, MEXICO CITY, MEXICO, JUNE 26-29, 2017, PROCEEDINGS

Springer This book constitutes the thoroughly refereed proceedings of the 6th International Conference on Mathematics and Computation in Music, MCM 2017, held in Mexico City, Mexico, in June 2017. The 26 full papers and 2 short papers presented were carefully reviewed and selected from 40 submissions. The papers feature research that combines mathematics or computation with music theory, music analysis, composition, and performance. They are organized in topical sections on algebraic models, computer assisted performance, Fourier analysis, Gesture Theory, Graph Theory and Combinatorics, Machine Learning, and Probability and Statistics in Musical Analysis and Composition.

AN INTRODUCTION TO MATHEMATICAL MODELING

Courier Corporation Accessible text features over 100 reality-based examples pulled from the science, engineering, and operations research fields. Prerequisites: ordinary differential equations, continuous probability. Numerous references. Includes 27 black-and-white figures. 1978 edition.

IMAGINE MATH 8

DREAMING VENICE

Springer Nature This eighth volume of Imagine Math is different from all the previous ones. The reason is very clear: in the last two years, the world changed, and we still do not know what the world of tomorrow will look like. Difficult to make predictions. This volume has a subtitle Dreaming Venice. Venice, the dream city of dreams, that miraculous

image of a city on water that resisted for hundreds of years, has become in the last two years truly unreachable. Many things tie this book to the previous ones. Once again, this volume also starts like Imagine Math 7, with a homage to the Italian artist Mimmo Paladino who created exclusively for the Imagine Math 8 volume a new series of ten original and unique works of art dedicated to Piero della Francesca. Many artists, art historians, designers and musicians are involved in the new book, including Linda D. Henderson and Marco Pierini, Claudio Ambrosini and Davide Amodio. Space also for comics and mathematics in a Disney key. Many applications, from Origami to mathematical models for world hunger. Particular attention to classical and modern architecture, with Tullia Iori. As usual, the topics are treated in a way that is rigorous but captivating, detailed and full of evocations. This is an all-embracing look at the world of mathematics and culture.

THE LANGUAGE OF MATHEMATICS EDUCATION

AN EXPANDED GLOSSARY OF KEY TERMS AND CONCEPTS IN MATHEMATICS TEACHING AND LEARNING

BRILL **The Language of Mathematics Education provides definitions, summaries, and bibliographic references for over 100 key terms and concepts commonly used in mathematics teaching and learning.**

CUET (PG)-PART A GENERAL SECTION-ENGLISH, GENERAL AWARENESS, MATHEMATICAL APTITUDE AND ANALYTICAL SKILLS EBOOK-PDF

Chandresh Agrawal **SGN.The Ebook CUET (PG)-Part A General Section-English, General Awareness, Mathematical Aptitude and Analytical Skills Covers Objective Questions From Various Competitive Exams.**

CONTEMPORARY STUDIES IN DISCRETE MATHEMATICS

VOLUME 2 ISSUE 1, FEBRUARY 2018

Sudev Naduvath **Volume 2 Issue 1 of the journal "Contemporary Studies in Discrete Mathematics"**

MATHEMATICAL COMMUNICATIONS

STRENGTHENING FORENSIC SCIENCE IN THE UNITED STATES

A PATH FORWARD

National Academies Press **Scores of talented and dedicated people serve the forensic science community, performing vitally important work. However, they are often constrained by lack of adequate resources, sound policies, and national support. It is clear that change and advancements, both systematic and scientific, are needed in a number of forensic science disciplines to ensure the reliability of work, establish enforceable standards, and promote best practices with consistent application. Strengthening Forensic Science in the United States: A Path Forward provides a detailed plan for addressing these needs and suggests the creation of a new government entity, the National Institute of Forensic Science, to establish and enforce standards within the forensic science community. The benefits of improving and regulating the forensic science disciplines are clear: assisting law enforcement officials, enhancing homeland security, and reducing the risk of wrongful conviction and exoneration. Strengthening Forensic Science in the United States gives a full account of what is needed to advance the forensic science disciplines, including upgrading of systems and organizational structures, better training, widespread adoption of uniform and enforceable best practices, and mandatory certification and accreditation programs. While this book provides an essential call-to-action for congress and policy makers, it also serves as a vital tool for law enforcement agencies, criminal prosecutors and attorneys, and forensic science educators.**

TEACHING AND LEARNING SECONDARY SCHOOL MATHEMATICS

CANADIAN PERSPECTIVES IN AN INTERNATIONAL CONTEXT

Springer **This volume brings together recent research and commentary in secondary school mathematics from a breadth of contemporary Canadian and International researchers and educators. It is both representative of mathematics education generally, as well as unique to the particular geography and culture of Canada. The chapters address topics of broad applicability such as technology in learning mathematics, recent interest in social justice contexts in the learning of mathematics, as well as Indigenous education. The voices of classroom practitioners, the group ultimately responsible for implementing this new vision of mathematics teaching and learning, are not forgotten. Each section includes a chapter written by a classroom teacher, making this volume unique in its approach. We have much to learn from one another, and this volume takes the stance that the development of a united vision, supported by both research and professional dialog, provides the first step.**

CRITICAL MATHEMATICS EDUCATION: PAST, PRESENT AND FUTURE

FESTSCHRIFT FOR OLE SKOVSMOSE

BRILL **Critical mathematics education brings together a series of concerns related to mathematics and its role in society, the practices of teaching and learning of mathematics in educational settings, and the practices of researching mathematics education. The work of Ole Skovsmose has provided a seminal contribution to the shaping of those**

concerns in the international community of mathematics educators and mathematics education researchers.

REINFORCEMENT LEARNING, SECOND EDITION

AN INTRODUCTION

MIT Press The significantly expanded and updated new edition of a widely used text on reinforcement learning, one of the most active research areas in artificial intelligence. Reinforcement learning, one of the most active research areas in artificial intelligence, is a computational approach to learning whereby an agent tries to maximize the total amount of reward it receives while interacting with a complex, uncertain environment. In Reinforcement Learning, Richard Sutton and Andrew Barto provide a clear and simple account of the field's key ideas and algorithms. This second edition has been significantly expanded and updated, presenting new topics and updating coverage of other topics. Like the first edition, this second edition focuses on core online learning algorithms, with the more mathematical material set off in shaded boxes. Part I covers as much of reinforcement learning as possible without going beyond the tabular case for which exact solutions can be found. Many algorithms presented in this part are new to the second edition, including UCB, Expected Sarsa, and Double Learning. Part II extends these ideas to function approximation, with new sections on such topics as artificial neural networks and the Fourier basis, and offers expanded treatment of off-policy learning and policy-gradient methods. Part III has new chapters on reinforcement learning's relationships to psychology and neuroscience, as well as an updated case-studies chapter including AlphaGo and AlphaGo Zero, Atari game playing, and IBM Watson's wagering strategy. The final chapter discusses the future societal impacts of reinforcement learning.

MATHEMATICAL RESEARCH LETTERS

MRL.

MATHEMATICS AND TECHNOLOGY

A C.I.E.A.E.M. SOURCEBOOK

Springer This volume collects most recent work on the role of technology in mathematics education. It offers fresh insight and understanding of the many ways in which technological resources can improve the teaching and learning of mathematics. The first section of the volume focuses on the question how a proposed mathematical task in a technological environment can influence the acquisition of knowledge and what elements are important to retain in the design of mathematical tasks in computing environments. The use of white smart boards, platforms as Moodle, tablets and smartphones have transformed the way we communicate both inside and outside the mathematics classroom. Therefore the second section discussed how to make efficient use of these resources in the classroom and beyond. The third section addresses how technology modifies the way information is transmitted and how mathematical education has to take into account the new ways of learning through connected networks as well as new ways of teaching. The last section is on the training of teachers in the digital era. The editors of this volume have selected papers from the proceedings of the 65th, 66th and 67th CIEAEM conference, and invited the correspondent authors to contribute to this volume by discussing one of the four important topics. The book continues a series of sourcebooks edited by CIEAEM, the Commission Internationale pour l'Étude et l'Amélioration de l'Enseignement des Mathématiques / International Commission for the Study and Improvement of Mathematics Education.

AGRICULTURAL BIOTECHNOLOGY AND INTELLECTUAL PROPERTY

SEEDS OF CHANGE

CABI Scientists are becoming progressively more involved in developing methods for increasing agricultural productivity and designing plants with certain qualities. As such, genetic engineering has given plant breeders a means to exercise property rights over different varieties of plants. This has created many implications and given way to much controversy, with most objections being raised against the idea of owning life. With the use of comparative studies, this book discusses the legal, agribusiness and public policy issues that connect intellectual property protection with advancements in agricultural biotechnology.

THE MEDIA, THE PUBLIC AND AGRICULTURAL BIOTECHNOLOGY

CABI This book reviews the literature on communication about biotechnology. Other books deal with this topic, however this book with the use of case studies, looks at public opinion data, communication theory, and international examples; to provide a complementary overview of how the public sees this controversial topic.

INNOVATIONS AND SOCIAL MEDIA ANALYTICS IN A DIGITAL SOCIETY

CRC Press Recent advances in digitization are transforming healthcare, education, tourism, information technology, and some other sectors. Social media analytics are tools that can be used to measure innovation and the relation of the companies with the citizens. This book comprises state-ofthe-art social media analytics, and advanced innovation policies in the digitization of society. The number of applications that can be used to create and analyze social media analytics generates large amounts of data called big data, including measures of the use of the technologies to develop or to use new services to improve the quality of life of the citizens. Digitization has applications in fields from

remote monitoring to smart sensors and other devices. Integration generates data that need to be analyzed and visualized in an easy and clear way, that will be some of the proposals of the researchers present in this book. This volume offers valuable insights to researchers on how to design innovative digital analytics systems and how to improve information delivery remotely.

EMERGING TECHNOLOGIES FOR STEAM EDUCATION

FULL STEAM AHEAD

Springer **This theory-to-practice guide offers leading-edge ideas for wide-scale curriculum reform in sciences, technology, engineering, the arts, and mathematics--the STEAM subjects. Chapters emphasize the critical importance of current and emerging digital technologies in bringing STEM education up to speed and implementing changes to curricula at the classroom level. Of particular interest are the diverse ways of integrating the liberal arts into STEM course content in mutually reshaping humanities education and scientific education. This framework and its many instructive examples are geared to ensure that both educators and students can become innovative thinkers and effective problem-solvers in a knowledge-based society. Included in the coverage: Reconceptualizing a college science learning experience in the new digital era. Using mobile devices to support formal, informal, and semi-formal learning. Change of attitudes, self-concept, and team dynamics in engineering education. The language arts as foundational for science, technology, engineering, art, and mathematics. Can K-12 math teachers train students to make valid logical reasoning? Moving forward with STEAM education research. Emerging Technologies for STEAM Education equips educators, education researchers, administrators, and education policymakers with curricular and pedagogical strategies for making STEAM education the bedrock of accessible, relevant learning in keeping with today's digital advances.**

HANDBOOK OF EARLY CHILDHOOD EDUCATION

Guilford Publications **Comprehensive and authoritative, this forward-thinking book reviews the breadth of current knowledge about early education and identifies important priorities for practice and policy. Robert C. Pianta and his associates bring together foremost experts to examine what works in promoting all children's school readiness and social-emotional development in preschool and the primary grades. Exemplary programs, instructional practices, and professional development initiatives?and the systems needed to put them into place?are described. The volume presents cutting-edge findings on the family and social context of early education and explores ways to strengthen collaboration between professionals and parents.**

ADVANCES IN THEORETICAL AND MATHEMATICAL PHYSICS

ATMP.

GODEL'S DISJUNCTION

THE SCOPE AND LIMITS OF MATHEMATICAL KNOWLEDGE

Oxford University Press **The logician Kurt Godel in 1951 established a disjunctive thesis about the scope and limits of mathematical knowledge: either the mathematical mind is not equivalent to a Turing machine (i.e., a computer), or there are absolutely undecidable mathematical problems. In the second half of the twentieth century, attempts have been made to arrive at a stronger conclusion. In particular, arguments have been produced by the philosopher J.R. Lucas and by the physicist and mathematician Roger Penrose that intend to show that the mathematical mind is more powerful than any computer. These arguments, and counterarguments to them, have not convinced the logical and philosophical community. The reason for this is an insufficiency if rigour in the debate. The contributions in this volume move the debate forward by formulating rigorous frameworks and formally spelling out and evaluating arguments that bear on Godel's disjunction in these frameworks. The contributions in this volume have been written by world leading experts in the field.**

INTERNATIONAL HANDBOOK OF MATHEMATICS TEACHER EDUCATION: VOLUME 4

THE MATHEMATICS TEACHER EDUCATOR AS A DEVELOPING PROFESSIONAL (SECOND EDITION)

BRILL **This fourth volume addresses teacher educators' knowledge, learning and practice with teachers/instructors of mathematics. It provides practical, professional and theoretical perspectives of different approaches/activities/programmes to promote effective teacher education practice, with valuable implications for research.**

CRITICAL MATHEMATICS EDUCATION

THEORY, PRAXIS AND REALITY

IAP **Mathematics is traditionally seen as the most neutral of disciplines, the furthest removed from the arguments and controversy of politics and social life. However, critical mathematics challenges these assumptions and actively attacks the idea that mathematics is pure, objective, and value?neutral. It argues that history, society, and politics have shaped mathematics—not only through its applications and uses but also through molding its concepts, methods, and**

even mathematical truth and proof, the very means of establishing truth. Critical mathematics education also attacks the neutrality of the teaching and learning of mathematics, showing how these are value?laden activities indissolubly linked to social and political life. Instead, it argues that the values of openness, dialogicality, criticality towards received opinion, empowerment of the learner, and social/political engagement and citizenship are necessary dimensions of the teaching and learning of mathematics, if it is to contribute towards democracy and social justice. This book draws together critical theoretic contributions on mathematics and mathematics education from leading researchers in the field. Recurring themes include: The natures of mathematics and critical mathematics education, issues of epistemology and ethics; Ideology, the hegemony of mathematics, ethnomathematics, and real?life education; Capitalism, globalization, politics, social class, habitus, citizenship and equity. The book demonstrates the links between these themes and the discipline of mathematics, and its critical teaching and learning. The outcome is a groundbreaking collection unified by a shared concern with critical perspectives of mathematics and education, and of the ways they impact on practice.

HANDBOOK ON CONSTRUCTING COMPOSITE INDICATORS: METHODOLOGY AND USER GUIDE

OECD Publishing **A guide for constructing and using composite indicators for policy makers, academics, the media and other interested parties. In particular, this handbook is concerned with indicators which compare and rank country performance.**

ABSTRACTS OF PAPERS PRESENTED TO THE AMERICAN MATHEMATICAL SOCIETY

MATHEMATICS IN ANCIENT JAINA LITERATURE

World Scientific **The volume contains selected articles presented in the ZOOM conference on History of Mathematics in Jain Literature, December 2020, and also contains articles invited by the editors on specific topics.The main objective for the conference was to bring to the attention of historians in mathematics that there is a plenty of literature written by monks and scholars in Jaina literature that contains elements of arithmetic, algebra and geometry, independent of discoveries by other cultures in the past. The talks and the discussions at the conference highlighted a need for a volume that can be recommended as a reference book for a course on History of Mathematics in the Departments of Mathematics and Education in colleges and universities. This is our hope that the present volume would fill up the gap on the lack of knowledge of past Jaina contributions.**

CASES ON INQUIRY THROUGH INSTRUCTIONAL TECHNOLOGY IN MATH AND SCIENCE

IGI Global **There exists a wealth of information about inquiry and about science, technology, engineering, and mathematics (STEM), but current research lacks meaningfully written, thoughtful applications of both topics.Cases on Inquiry through Instructional Technology in Math and Science represents the work of many authors toward meaningful discourse of inquiry used in STEM teaching. This book presents insightful information to teachers and teacher education candidates about using inquiry in the real classroom, case studies from which research suggests appropriate uses, and tangible direction for creating their own inquiry based STEM activities. Sections take the reader logically through the meaning of inquiry in STEM teaching, how to use technology in modern classrooms, STEM projects which successfully integrate inquiry methodology, and inquiry problem solving within STEM classrooms with the aim of creating activities and models useful for real-world classrooms.**

SYMMETRY IN APPLIED MATHEMATICS

MDPI **Applied mathematics and symmetry work together as a powerful tool for problem reduction and solving. We are communicating applications in probability theory and statistics (A Test Detecting the Outliers for Continuous Distributions Based on the Cumulative Distribution Function of the Data Being Tested, The Asymmetric Alpha-Power Skew-t Distribution), fractals - geometry and alike (Khovanov Homology of Three-Strand Braid Links, Volume Preserving Maps Between p-Balls, Generation of Julia and Mandelbrot Sets via Fixed Points), supersymmetry - physics, nanostructures -chemistry, taxonomy - biology and alike (A Continuous Coordinate System for the Plane by Triangular Symmetry, One-Dimensional Optimal System for 2D Rotating Ideal Gas, Minimal Energy Configurations of Finite Molecular Arrays, Noether-Like Operators and First Integrals for Generalized Systems of Lane-Emden Equations), algorithms, programs and software analysis (Algorithm for Neutrosophic Soft Sets in Stochastic Multi-Criteria Group Decision Making Based on Prospect Theory, On a Reduced Cost Higher Order Traub-Steffensen-Like Method for Nonlinear Systems, On a Class of Optimal Fourth Order Multiple Root Solvers without Using Derivatives) to specific subjects (Facility Location Problem Approach for Distributed Drones, Parametric Jensen-Shannon Statistical Complexity and Its Applications on Full-Scale Compartment Fire Data). Diverse topics are thus combined to map out the mathematical core of practical problems.**

FUTURE OF SOLAR PHOTOVOLTAIC

International Renewable Energy Agency (IRENA) **This study presents options to fully unlock the world's vast solar PV potential over the period until 2050. It builds on IRENA's global roadmap to scale up renewables and meet climate goals.**

EMPIRICAL RESEARCH ON SEMIOTICS AND VISUAL RHETORIC

IGI Global **The study of symbols has long been considered a necessary field to unravel concealed meanings in symbols**

and images. These methods have since established themselves as staples in various fields of psychology, anthropology, computer science, and cognitive science. Empirical Research on Semiotics and Visual Rhetoric is a critical academic publication that examines communication through images and symbols and the methods by which researchers and scientists analyze these images and symbols. Featuring coverage on a wide range of topics, such as material culture, congruity theory, and social media, this publication is geared toward academicians, researchers, and students seeking current research on images, symbols, and how to analyze them.