

MATHEMATICAL PEOPLE

• PROFILES AND INTERVIEWS •

SECOND EDITION



EDITED BY

DONALD J. ALBERS & GERALD L. ALEXANDERSON

Mathematical People Pro And Interviews

Yu Kiang Leong



Mathematical People Pro And Interviews:

Fascinating Mathematical People Donald J. Albers, Gerald L. Alexanderson, 2011-09-06 Top mathematicians talk about their work and lives Fascinating Mathematical People is a collection of informal interviews and memoirs of sixteen prominent members of the mathematical community of the twentieth century many still active The candid portraits collected here demonstrate that while these men and women vary widely in terms of their backgrounds life stories and worldviews they all share a deep and abiding sense of wonder about mathematics Featured here in their own words are major research mathematicians whose cutting edge discoveries have advanced the frontiers of the field such as Lars Ahlfors Mary Cartwright Dusa McDuff and Atle Selberg Others are leading mathematicians who have also been highly influential as teachers and mentors like Tom Apostol and Jean Taylor Fern Hunt describes what it was like to be among the first black women to earn a PhD in mathematics Harold Bacon made trips to Alcatraz to help a prisoner learn calculus Thomas Banchoff who first became interested in the fourth dimension while reading a Captain Marvel comic relates his fascinating friendship with Salvador Dal and their shared passion for art mathematics and the profound connection between the two Other mathematical people found here are Leon Bankoff who was also a Beverly Hills dentist Arthur Benjamin a part time professional magician and Joseph Gallian a legendary mentor of future mathematicians but also a world renowned expert on the Beatles This beautifully illustrated collection includes many photographs never before published concise introductions by the editors to each person and a foreword by Philip J Davis

More Mathematical People Donald J. Albers, Gerald L. Alexanderson, Constance Reid, 1990 In the tradition of the first volume of Mathematical People comes another collection of interviews and profiles with some of the most prestigious mathematicians of our time The chapters tell in the mathematicians own words how they became interested in mathematics how they chose their speciality and about their hobbies and personal lives Each interview has its own colorful character and is full of photographs so personal and lively that they add a new dimension to the reader's perception from dust jacket

Art And Practice Of Mathematics, The: Interviews At The Institute For Mathematical Sciences, National University Of Singapore, 2010-2020 Yu Kiang Leong, 2021-06-23 This book constitutes the second volume of interviews with prominent mathematicians and mathematical scientists who visited the Institute for Mathematical Sciences National University of Singapore First published in the Institute's newsletter Imprints during the period 2010-2020 they offer glimpses of an esoteric universe as viewed and experienced by some of the leading and creative practitioners of the craft of mathematics The topics covered in this volume are wide ranging running from pure mathematics logic number theory algebraic geometry to applied mathematics mathematical modeling fluid dynamics through probability and statistics mathematical physics theoretical computer science and financial mathematics This eclectic mix of the abstract and the concrete should interest those who are enthralled by the mystique and power of mathematics whether they are students researchers or the non specialists By briefly tracing the paths traveled by the

pioneers of different national backgrounds the interviews attempt to put a cultural face to an intellectual endeavor that is often perceived as dry and austere by the uninitiated They should also interest those who are intrigued by the influence of the environment on the creative spirit and in particular those who are interested in the psychology and history of ideas

Mathematical People Donald Albers, Gerald L. Alexanderson, 2008-09-18 This unique collection contains extensive and in depth interviews with mathematicians who have shaped the field of mathematics in the twentieth century Collected by two mathematicians respected in the community for their skill in communicating mathematical topics to a broader audience the book is also rich with photographs and includes an introduction

The Mathematics of Juggling Burkard Polster, 2006-05-26 As a juggler the author likes to finish his performances with a stunt that combines props and techniques from a variety of juggling disciplines Imagine him idling on a giraffe unicycle while balancing a spinning basketball on a mouth stick and toss juggling a sword a toilet plunger and a rubber chicken As a mathematician he is also interested in the treasure trove of beautiful mathematics used to model the different activities in a juggler's repertoire In this book he provides an intellectually stimulating collection of mostly self contained mathematical essays that introduce the reader to many elegant results and techniques from a wide range of mathematical disciplines such as combinatorics graph theory knot theory mechanics differential equations control theory and robotics *The Mathematics of Juggling* is the first comprehensive account summarizing and expanding the results in the literature on juggling tricks and skills as well as the mathematics behind these tricks and skills Anybody who is not put off by the word mathematics in the title of this book should have a good time reading it

LOST Opportunities Bronwyn Bevan, Philip Bell, Reed Stevens, Aria Razfar, 2012-07-26 Learning in informal settings is attracting growing attention from policymakers and researchers yet there remains at the moment a dearth of literature on the topic Thus this volume which examines how science and mathematics are experienced in everyday and out of school time OST settings makes an important contribution to the field of the learning sciences Conducting research on OST learning requires us to broaden and deepen our conceptions of learning as well as to better identify the unique and common qualities of different learning settings We must also find better ways to analyze the interplay between OST and school based learning In this volume scholars develop theoretical structures that are useful not only for understanding learning processes but also for helping to create and support new opportunities for learning whether they are in or out of school or bridging a range of settings The chapters in this volume include studies of everyday and situated processes that facilitate science and mathematics learning They also feature new theoretical and empirical frameworks for studying learning pathways that span both in and out of school time and settings Contributors also examine structured OST programs in which everyday and situated modes of learning are leveraged in support of more disciplined practices and conceptions of science and mathematics Fortifying much of this work is a leading focus on educational equity a desire to foster more socially supportive and intellectually engaging science and mathematics learning opportunities for youth from historically non dominant

communities Full of compelling examples and revealing analysis this book is a vital addition to the literature on a subject with a fast rising profile **Hands-On Math Projects With Real-Life Applications** Judith A Muschla,Gary Robert

Muschla,2011-01-04 The second edition of this hands on math guide features sixty engaging projects for students in grades six to twelve learn math concepts and skills This book is filled with classroom tested projects that help students build skills in problem solving critical thinking and decision making They also support a positive group environment by emphasize cooperative learning group sharing verbalizing ideas and research skills as well as writing clearly in mathematics and across other subject areas Each of the projects follows the same proven format and includes instructions for the teacher a Student Guide and one or more reproducible datasheets and worksheets They all include the elements needed for a successful individual or group learning experience This second edition includes new projects and information about technology based and e learning strategies Hands On Math Projects with Real Life Applications includes a special Skills Index that identifies the skills emphasized in each project This book will save you time and help you instill in your students a genuine appreciation for the world of mathematics Teaching Mathematics Pamela Cowan,2006-02-13 A practical introduction to Maths

teaching designed specifically for beginning teachers in primary and secondary schools It brings together the latest DfES and TTA guidelines and requirements with authoritative guidance ensuring that readers feel confident about how to approach their role as a teacher This book explores key issues in maths teaching today including planning and classroom management assessment recording and reporting information and communication technology investigative mathematics equal opportunities special needs and differentiation key skills and alternative mathematics qualifications being an effective maths teacher personal and professional development in the early stages of a teaching career **Becoming a Mathematician**

Leigh N Wood,Peter Petocz,Anna Reid,2012-02-13 This book considers the views of participants in the process of becoming a mathematician that is the students and the graduates This book investigates the people who carry out mathematics rather than the topics of mathematics Learning is about change in a person the development of an identity and ways of interacting with the world It investigates more generally the development of mathematical scientists for a variety of workplaces and includes the experiences of those who were not successful in the transition to the workplace as mathematicians The research presented is based on interviews observations and surveys of students and graduates as they are finding their identity as a mathematician The book contains material from the research carried out in South Africa Northern Ireland Canada and Brunei as well as Australia **Best Practices in Professional Learning and Teacher Preparation** National Assoc For Gifted

Children,Angela Novak,2021-09-03 Several states offer additional teacher preparation programs by providing either an endorsement or certification in the field but these are often pursued by teachers specifically enrolled in gifted coursework rather than in general education programs Practitioners and researchers agree that time and energy should be spent on training teachers in how to address the needs of gifted and talented students both within the regular classroom and in

specialized programs This three book series acknowledges this need and provides specific strategies for professional development in a variety of settings using various methods Drawing on both literature in the field and research based best practices in professional learning this series provides the reader with a foundation for designing and implementing effective professional development experiences for educators working with gifted learners This volume Provides strategies and curricular materials resources for working with gifted learners in specific content areas i e mathematics science social studies literacy languages and the arts Discusses the importance of training teachers to use high quality curriculum Builds off of research on talent development cultural awareness and social justice in education Details instructional strategies that are appropriate for challenging gifted learners including developing growth mindset A service publication of the National Association for Gifted Children Washington DC This designation indicates that this book has been jointly developed with NAGC and that this book passes the highest standards of scholarship research and practice

Teaching Secondary and Middle School Mathematics Daniel J. Brahier, 2024-01-22 Teaching Secondary and Middle School Mathematics combines the latest developments in research technology and standards with a vibrant writing style to help teachers prepare for the excitement and challenges of teaching secondary and middle school mathematics The book explores the mathematics teaching profession by examining the processes of planning teaching and assessing student progress through practical examples and recommendations Beginning with an examination of what it means to teach and learn mathematics the reader is led through the essential components of teaching concluding with an examination of how teachers continue with professional development throughout their careers Hundreds of citations are used to support the ideas presented in the text and specific websites and other resources are presented for future study by the reader Classroom scenarios are presented to engage the reader in thinking through specific challenges that are common in mathematics classrooms The seventh edition has been updated and expanded with particular emphasis on the latest technology standards and other resources The reader is introduced to the ways that students think and how to best meet their needs through planning that involves attention to differentiation as well as how to manage a classroom for success Features include Following on from the sixth edition assessment takes a central role in planning and teaching Unit 3 of 5 addresses the use of summative and formative assessments to inform classroom teaching practices A new appendix is included that lists websites that can be used in a methods class to view other teachers interacting with students for discussion of effective teaching practices The feature entitled Links and Resources has been updated in each of the 13 chapters Five strongly recommended and practical resources are spotlighted at the end of each chapter as an easy reference to some of the most important materials on the topic Approximately 150 new citations have either replaced or been added to the text to reflect the latest in research materials and resources that support the teaching of mathematics Significant revisions have been made to Chapter 12 which now includes updated research and practices as well as a discussion on culturally responsive pedagogy Likewise Chapter 8

now includes a description of best and high leverage teaching practices and a discussion in Chapter 11 on alternative high school mathematics electives for students has been added Chapter 9 on the practical use of classroom technology has again been revised to reflect the latest tools available to classroom teachers including apps that can be run on handheld personal devices in light of changes in education resulting from the global pandemic An updated Instructor's Manual features a test bank sample classroom activities PowerPoint slide content chapter summaries and learning outcomes for each chapter and can be accessed by instructors online at www.routledge.com/9781032472867 International Approaches to Professional Development for Mathematics Teachers Nadine Bednarz, Dario Fiorentini, Rongjin Huang, 2011-08-06 Schools everywhere are being confronted with evolving learning and teaching paradigms that call into question a number of traditional math teaching techniques These changes demand serious reflection on how to support frontline educators in developing their teaching skills Alternative approaches to professional development have been established worldwide that support teacher education and contribute to professional development that is informed by practice created for practice and refined in practice This volume provides a rich portrait of these emergent strategies in the professional development of math teachers bridging the divide between theory and practice Written by researchers around the world the contributions examine innovative approaches to the professional development of math teachers in different countries Many of these approaches take into account the practitioner's point of view and are fundamentally rooted in the context of the classroom **Mathematics** Harry Henderson, 2007 Discusses mathematics and how it plans an intricate part of daily life rather than an isolated science

Techniques of Problem Solving Steven G. Krantz, 1996-11-13 The purpose of this book is to teach the basic principles of problem solving including both mathematical and nonmathematical problems This book will help students to translate verbal discussions into analytical data learn problem solving methods for attacking collections of analytical questions or data build a personal arsenal of internalized problem solving techniques and solutions become armed problem solvers ready to do battle with a variety of puzzles in different areas of life Taking a direct and practical approach to the subject matter Krantz's book stands apart from others like it in that it incorporates exercises throughout the text After many solved problems are given a Challenge Problem is presented Additional problems are included for readers to tackle at the end of each chapter There are more than 350 problems in all This book won the CHOICE Outstanding Academic Book Award for 1997 A Solutions Manual to most end of chapter exercises is available **The Mathematics Teacher in the Digital Era** Alison Clark-Wilson, Ornella Robutti, Nathalie Sinclair, 2013-12-08 This volume addresses the key issue of the initial education and lifelong professional learning of teachers of mathematics to enable them to realize the affordances of educational technology for mathematics With invited contributions from leading scholars in the field this volume contains a blend of research articles and descriptive texts In the opening chapter John Mason invites the reader to engage in a number of mathematics tasks that highlight important features of technology mediated mathematical activity This is followed by three main sections An overview of

current practices in teachers use of digital technologies in the classroom and explorations of the possibilities for developing more effective practices drawing on a range of research perspectives including grounded theory enactivism and Valsiner's zone theory A set of chapters that share many common constructs such as instrumental orchestration instrumental distance and double instrumental genesis and research settings that have emerged from the French research community but have also been taken up by other colleagues Meta level considerations of research in the domain by contrasting different approaches and proposing connecting or uniting elements

First European Congress of Mathematics Anthony Joseph, Fulbert Mignot, Francois Murat, Bernard Prum, Rudolf Rentschler, 1994-08 The book contains the round table reports of the first European Congress of Mathematics a new feature of this Congress devoted to furthering the contribution of mathematics to society and reporting on its interaction with the exact and social sciences Topics Mathematics and the general public Women and mathematics Mathematics and educational policy Let's cultivate mathematics Mathematical Europe Myth or historical reality Philosophie des mathématiques pourquoi comment Mathématiques et sciences sociales Mathematics and industry Degree harmonization and student exchange programmes The Pythagoras programme Collaboration with developing countries Mathematical libraries in Europe Mathematics and economics Mathématiques et Chimie Mathematics in medicine and biology This book is also available in hardcover as Volume 121 of the series Progress in Mathematics where it forms part of the three volume set First European Congress of Mathematics Volumes I Invited Lectures Part 1 and II Invited Lectures Part 2 of this set are also available separately as Volumes 119 and 120 respectively of Progress in Mathematics

Axiomatics Alma Steingart, 2023-01-17 The first history of postwar mathematics offering a new interpretation of the rise of abstraction and axiomatics in the twentieth century Why did abstraction dominate American art social science and natural science in the mid twentieth century Why despite opposition did abstraction and theoretical knowledge flourish across a diverse set of intellectual pursuits during the Cold War In recovering the centrality of abstraction across a range of modernist projects in the United States Alma Steingart brings mathematics back into the conversation about midcentury American intellectual thought The expansion of mathematics in the aftermath of World War II she demonstrates was characterized by two opposing tendencies research in pure mathematics became increasingly abstract and rarified while research in applied mathematics and mathematical applications grew in prominence as new fields like operations research and game theory brought mathematical knowledge to bear on more domains of knowledge Both were predicated on the same abstractionist conception of mathematics and were rooted in the same approach modern axiomatics For American mathematicians the humanities and the sciences did not compete with one another but instead were two complementary sides of the same epistemological commitment Steingart further reveals how this mathematical epistemology influenced the sciences and humanities particularly the postwar social sciences As mathematics changed so did the meaning of mathematization Axiomatics focuses on American mathematicians during a transformative time following a series of

controversies among mathematicians about the nature of mathematics as a field of study and as a body of knowledge The ensuing debates offer a window onto the postwar development of mathematics and Cold War epistemology writ large As Steingart's history ably demonstrates mathematics is the social activity in which styles of truth here abstraction become synonymous with ways of knowing

Theory and Practice of Lesson Study in Mathematics Rongjin Huang, Akihiko Takahashi, João Pedro da Ponte, 2019-05-28 This book brings together and builds on the current research efforts on adaptation conceptualization and theorization of Lesson Study LS It synthesizes and illustrates major perspectives for theorizing LS and enriches the conceptualization of LS by interpreting the activity as it is used in Japan and China from historical and cultural perspectives Presenting the practices and theories of LS with practicing teachers and prospective teachers in more than 10 countries it enables the reader to take a comparative perspective Finally the book presents and discusses studies on key aspects of LS such as lesson planning post lesson discussion guiding theories connection between research and practice and upscaling Lesson Study which has originated in Asia as a powerful effective professional development model has spread globally Although the positive effects of lesson study on teacher learning student learning and curriculum reforms have been widely documented conceptualization of and research on LS have just begun to emerge This book including 38 chapters contributed by 90 scholars from 21 countries presents a truly international collaboration on research on and adaptation of LS and significantly advances the development of knowledge about this process Chapter 15 How Variance and Invariance Can Inform Teachers Enactment of Mathematics Lessons of this book is available open access under a CC BY 4.0 license at link.springer.com Theory and Practice of Lesson Study in Mathematics An International Perspective shows that the power of Lesson Study to transform the role of teachers in classroom research cannot be explained by a simple replication model Here we see Lesson Study being successful internationally when its key principles and practices are taken seriously and are adapted to meet local issues and challenges Max Stephens Senior research fellow at The University of Melbourne It works Instruction improves learning improves Wide scale Enduring Deep impact Lesson study has it When something works as well as lesson study does while alternative systems for improving instruction fail or only succeed on small scale or evaporate as quickly as they show promise it is time to understand how and why lesson study works This volume brings the research on lesson study together from around the world Here is what we already know and here is the way forward for research and practice informed by research It is time to wake up and pay attention to what has worked so well on wide scale for so long Phil Dara A leading author of the Common Core State Standards of Mathematics in the U.S.

Twenty Interviews With Psychometric Society Presidents Lisa D. Wijsen, 2023-11-16 Twenty Interviews with Psychometric Society Presidents tells the stories of the people who are the driving forces of psychometric research teaching and practice In semi structured interviews twenty presidents of the Psychometric Society share how they moved into the psychometric field what inspired them to pursue this path and what still drives them to do their research They also reflect on

the current status history and future of their own field considering psychometrics most significant historical achievements as well as the major challenges that lie ahead This curated collection provides a wealth of historical knowledge that is relevant for every practicing psychometrician Introspective and insightful it exhibits the wide array of opinions and visions in the field Readers are invited to critically reflect on what holds this diverse field together and what challenges and opportunities are on the horizon

Biographies of Scientists Roger Smith, 1998 Identifies over 500 sources of information about the lives of scientists for young and adult general readers and for scholars Entries ranging from a quarter to a half page in length explain briefly what the subjects achieved worthy of biography as well as describing the work in some detail The works cited include books encyclopedias and periodicals and both biography and autobiography The arrangement is by discipline the social sciences are not included with indexes by author and subject scientist Annotation copyrighted by Book News Inc Portland OR

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