

A HISTORY OF

WOMEN

in

Mathematics

EXPLORING THE TRAILBLAZERS OF STEM



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Women In Mathematics

Clifford Lane



Women In Mathematics:

Women in Mathematics Janet L. Beery, Sarah J. Greenwald, Jacqueline A. Jensen-Vallin, Maura B. Mast, 2017-12-02 This collection of refereed papers celebrates the contributions, achievements, and progress of female mathematicians mostly in the 20th and 21st centuries. Emerging from the themed paper session "The Contributions of Women to Mathematics: 100 Years and Counting" at MAA's 2015 MathFest, this volume contains a diverse mix of current scholarship and exposition on women and mathematics, including biographies, histories, and cultural discussions. The multiplicity of authors also ensures a wide variety of perspectives. In inspiring and informative chapters, the authors featured in this volume reflect on the accomplishments of women in mathematics, showcasing the changes in mathematical culture that resulted as more women obtained tenure-track and tenured academic positions, received prestigious awards and honors, served in leadership roles in professional societies, and became more visibly active in the mathematical community. Readers will find discussions of mathematical excellence at Girton College, Cambridge, in the late 19th and early 20th centuries; of perseverance by Polish women in mathematics during and after World War II; and by Black women in mathematics in the United States from the 1880s onward, and of the impact of outreach programs ranging from EDGE's promotion of graduate education to the Daughters of Hypatia dance performances. The volume also provides informative biographies of a variety of women from mathematics and statistics, many of them well-known and others less well-known, including Charlotte Angas Scott, Emmy Noether, Mina Rees, Gertrude Cox, Euphemia Lofton Haynes, Norma Hernandez, Deborah Tepper Haimo, and Teri Perl. These essays provide compelling reading for a wide audience, including mathematicians, historians of science, teachers of mathematics, and students at the high school, college, and graduate levels. Anyone interested in attracting more girls and women as students, faculty, and/or employees will also find this volume engaging and enlightening.

Women in Mathematics Claudia Henrion, 1997-10-22 a wonderful addition to any mathematics teacher's professional bookshelf. The Mathematics Teacher. The individual biographies themselves make for enthralling, often inspiring reading; this volume should be compelling reading for women, mathematics students, and professionals. A fine addition to the literature on women in science. Highly recommended. Choice. It makes an important contribution to scholarship on the interrelations of gender, mathematics, and culture in the U.S. in the second half of the twentieth century. Notices of the AMS. Who is the audience for this book? Certainly women who are interested in studying mathematics and women already in mathematics who have become discouraged will find much to interest and help them. Faculty who teach such women would put it to good use. But it would be a loss to relegate the book to a shelf for occasional reference to an interested student or beginning mathematician. Everyone in the mathematics community in which each of Henrion's subjects struggled so hard to find a place could benefit by a thoughtful reading. Society for Industrial and Applied Mathematics. SIAM News. Mathematics is often described as the purest of the sciences, the least tainted by subjective or cultural influences. Theoretically, the only requirement for a life of mathematics is

mathematical ability And yet we see very few women mathematicians Why Based upon a series of ten intensive interviews with prominent women mathematicians throughout the United States this book investigates the role of gender in the complex relationship between mathematician the mathematical community and mathematics itself *Complexities* Bettye Anne Case, Anne M. Leggett, 2005 More than eighty women from academe government and the private sector provide a rich melange of insights and strategies for creating workable mathematical career paths while maintaining rewarding personal lives

Fifty Years of Women in Mathematics Janet L. Beery, Sarah J. Greenwald, Cathy Kessel, 2022-04-21 The Association for Women in Mathematics AWM the oldest organization in the world for women in mathematics had its fiftieth anniversary in 2021 This collection of refereed articles illustrated by color photographs reflects on women in mathematics and the organization as a whole Some articles focus on the situation for women in mathematics at various times and places including other countries Others describe how individuals have shaped AWM and in turn how the organization has impacted individuals as well as the broader mathematical community Some are personal stories about careers in mathematics Fifty Years of Women in Mathematics Reminiscences History and Visions for the Future of AWM covers a span from AWM s beginnings through the following fifty years The volume celebrates AWM and its successes but does not shy away from its challenges The book is designed for a general audience It provides interesting and informative reading for people interested in mathematics gender equity or organizational structures teachers of mathematics students at the high school college and graduate levels and members of more recently established organizations for women in mathematics and related fields or prospective founders of such organizations

[Women Who Count: Honoring African American Women Mathematicians](#) Shelly M. Jones, 2019-07-30 Tessellations palindromes tangrams oh my Women Who Count Honoring African American Women Mathematicians is a children s activity book highlighting the lives and work of 29 African American women mathematicians including Dr Christine Darden Mary Jackson Katherine Johnson and Dorothy Vaughan from the award winning book and movie Hidden Figures Although the book is geared toward children in grades 3 8 it is appropriate for all ages The book includes portrait sketches and biographies for the featured mathematicians each followed by elementary school and middle school activity pages Children will enjoy uncovering mathematicians names in word searches unscrambling math vocabulary words solving equations to decode interesting facts using logical thinking to uncover magic squares locating hidden objects on an I Spy page and more They will also read about the important contributions of Drs Martha Euphemia Lofton Haynes Evelyn Boyd Granville and Marjorie Lee Browne the first three African American women to receive doctoral degrees in mathematics Other women profiled include contemporary mathematicians who will inspire today s children to become tomorrow s leaders Women Who Count is a must read for parents and children alike

Against All Odds Eva Kaufholz-Soldat, Nicola M.R. Oswald, 2020-07-29 This book presents an overview of the ways in which women have been able to conduct mathematical research since the 18th century despite their general exclusion from the sciences

Grouped into four thematic sections the authors concentrate on well known figures like Sophie Germain and Grace Chisholm Young as well as those who have remained unnoticed by historians so far Among them are Stanis awa Nidodym the first female students at the universities in Prague at the turn of the 20th century and the first female professors of mathematics in Denmark Highlighting individual biographies couples in science the situation at specific European universities and sociological factors influencing specific careers from the 18th century to the present the authors trace female mathematicians status as it evolved from singular and anomalous to virtually commonplace The book also offers insights into the various obstacles women faced when trying to enter perhaps the most male discipline of all and how some of them continue to shape young girls self perceptions and career choices today Thus it will benefit scholars and students in STEM disciplines gender studies and the history of science women in science mathematics and at institutions and those working in mathematics education

Women in Mathematics Lynn M. Osen,1975-02-15 Mathematicians science historians and general readers will find this book a lively history women will find it a reminder of a proud tradition and a challenge to take their rightful place in academic life today The colorful lives of these women who often traveled in the most avant garde circles of their day are presented in fascinating detail The obstacles and censures that were also a part of their lives are a sobering reminder of the bias against women still present in this and other fields of academic endeavor Mathematicians science historians and general readers will find this book a lively history women will find it a reminder of a proud tradition and a challenge to take their rightful place in academic life today

World Women in Mathematics 2018 Carolina Araujo,Georgia Benkart,Cheryl E. Praeger,Betül Tanbay,2019-11-16 The first World Meeting for Women in Mathematics WM 2 was a satellite event of the International Congress of Mathematicians ICM 2018 in Rio de Janeiro With a focus on Latin America the first WM 2 brought together mathematicians from all over the world to celebrate women mathematicians and also to reflect on gender issues in mathematics challenges initiatives and perspectives for the future Its activities were complemented by a panel discussion organized by the Committee for Women in Mathematics CWM of the International Mathematical Union IMU inside the ICM 2018 entitled The gender gap in mathematical and natural sciences from a historical perspective This historical proceedings book organized by CWM in coordination with the Association for Women in Mathematics records the first WM 2 and the CWM panel discussion at ICM 2018 The first part of the volume includes a report of activities with pictures of the first WM 2 and a tribute to Maryam Mirzakhani the first woman to be awarded the Fields medal It also comprises survey research papers from invited lecturers which provide panoramic views of different fields in pure and applied mathematics The second part of the book contains articles from the panelists of the CWM panel discussion which consider the historical context of the gender gap in mathematics It includes an analysis of women lecturers in the ICM since its inception This book is dedicated to the memory of Maryam Mirzakhani

Women of Mathematics Louise S. Grinstein,Paul J. Campbell,1987-06-16 The books contains biographies and bibliographies of some forty leading women

mathematicians The majority of the essays were written by women who are themselves mathematicians The work explores the barriers that have been faced over the years by the few successful women in higher mathematics

Women and Mathematics Susan F. Chipman, Lorelei R. Brush, Donna M. Wilson, 1985 First Published in 1985 Routledge is an imprint of Taylor Francis an informa company

Women in Mathematics and Science Yupin Bae, Thomas Max Smith, 1997 This report reviews the most current data on women's progress in mathematics and science achievement attitudes course taking patterns and college majors Results of recent studies suggest that many factors such as parental encouragement teacher preparation teacher student interactions curriculum content hands on laboratory experiences self concept attitudes toward mathematics and science availability of mentors and home resources contribute to the attitudes access and achievement of young women in mathematics and science The research cited here suggests that the gender gap in science and mathematics in the United States appears at Grade 10 while internationally the gap appears around Grade 8 Despite this there are still substantial differences between women and men in mathematics computer science engineering and science fields Contains 29 references

Common Threads Mary Harris, 1997 This book traces how when national education systems were first set up school mathematics needlework came to mark systematic differences between boys girls education reveals the lasting influence in expectations for boys and girls worldwide

Women and Numbers Teri Perl, 1993 Presents biographies of women from the nineteenth and twentieth centuries who pursued their interests in mathematics Each chapter includes different mathematical activities

European Women in Mathematics Catherine Hobbs, Sylvie Paycha, 2010 Deformation quantisation and connections S Gutt What is symplectic geometry D McDuff Regular permutation groups and Cayley graphs C E Praeger Arithmetic of elliptic curves through the ages R Sujatha Tricritical points and liquid solid critical lines A Aitta Elastic waves in rods of rectangular cross section A A Bondarenko Natural extensions for the golden mean K Dajani C Kalle An equivariant tietze extension theorem for proper actions of locally compact groups A Feragen On uniform tangential approximation by lacunary power series G Harutyunyan Cyclic division algebras in apace time coding a brief overview C Hollanti And what became of the women C Series Three great Girton mathematicians R M Williams What about the women now R M Williams Mathematics in society taking into account gender aspects a one semester course BSc C Scharlach

Women Mathematicians P. Chengalvarayan, S. Gokilavani, 2007 Contents Include Introduction Studies On Mathematical Education Women Mathematicians History And Contributions Sexist And Non Sexist Aspects Of Mathematics And Contemporary Women Liberal Feminist Interpretation Of Girls Performance In Mathematics Women's Images Attitudes And Mathematics Visibility Of Women Mathematicians A Critical Summary Appendices

European Women In Mathematics - Proceedings Of The 13th General Meeting Sylvie Paycha, Catherine Hobbs, 2009-12-21 This volume offers a unique collection of outstanding contributions from renowned women mathematicians who met in Cambridge for a conference under the auspices of European Women in Mathematics EWM These contributions serve as excellent surveys of their subject areas

including symplectic topology combinatorics and number theory The volume moreover sheds light on prominent women mathematicians who worked in Cambridge in the late 19th and early 20th centuries by providing an insightful historical introduction at the beginning of the volume The volume concludes with short contributions from women mathematicians from across Europe working in various areas of mathematics ranging from group theory to magnetic fields

Gender and Women's Leadership Karen O'Connor,2010-08-18 These volumes provide an authoritative reference resource on leadership issues specific to women and gender with a focus on positive aspects and opportunities for leadership in various domains

A to Z of Women in Science and Math Lisa Yount,2007 From ancient times to the present day scientifically inclined women in many cultures have had to battle against the traditional belief that men are more cognitively adept than women At times throughout history women were persecuted for their attempts to break down traditional gender barriers Today women scientists and mathematicians must continue to defend the quality of their work and demand the respect they deserve in the mathematical and scientific communities A to Z of Women in Science and Math Revised Edition profiles 195 women who fought against these stereotypes throughout history and all over the world to forge new discoveries and theories that would eventually change the way we view science This thoroughly revised book updates the story of each individual to the present day and features 38 new profiles Among the profiles included are those of chemists astronomers geologists environmental scientists and a range of other professions and careers In addition new photographs have been added and the bibliography has been updated Subject indexes allow the reader to search by such professions as microbiology and paleontology Additional subject indexes organize individuals by country of birth country of major scientific activity and year of birth

A Celebration of the EDGE Program's Impact on the Mathematics Community and Beyond Susan D'Agostino,Sarah Bryant,Amy Buchmann,Michelle Craddock Guinn,Leona Harris,2019-08-31 The Enhancing Diversity in Graduate Education EDGE Program began twenty years ago to provide support for women entering doctoral programs in the mathematical sciences With a steadfast commitment to diversity among participants faculty and staff EDGE initially alternated between Bryn Mawr and Spelman Colleges In later years EDGE has been hosted on campuses around the nation and expanded to offer support for women throughout their graduate school and professional careers The refereed papers in A Celebration of the EDGE Program s Impact on the Mathematics Community and Beyond range from short memoirs to pedagogical studies to current mathematics research All papers are written by former EDGE participants mentors instructors directors and others connected to EDGE Together these papers offer compelling testimony that EDGE has produced a diverse new generation of leaders in the mathematics community This volume contains technical and non technical works and it is intended for a far reaching audience including mathematicians mathematics teachers diversity officers university administrators government employees writing educational or science policy and mathematics students at the high school college and graduate levels By highlighting the scope of the work done by those supported by EDGE the volume offers strong evidence of the American

Mathematical Society's recognition that EDGE is a program that makes a difference. This volume offers unique testimony that a 20-year-old summer program has expanded its reach beyond the summer experience to produce a diverse new generation of women leaders, nearly half of whom are underrepresented women. While some books with a women-in-math theme focus only on one topic such as research or work-life balance, this book's broad scope includes papers on mathematics research, teaching, outreach, and career paths.

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Women In Mathematics Introduction

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