



Sophie Germain

Lars Jaeger



Sophie Germain:

Number Theory Through the Eyes of Sophie Germain David Pengelley, 2023-06-29 Number Theory Through the Eyes of Sophie Germain An Inquiry Course is an innovative textbook for an introductory number theory course Sophie Germain 1776 1831 was largely self taught in mathematics and two centuries ago in solitude devised and implemented a plan to prove Fermat's Last Theorem We have only recently completely understood this work from her unpublished letters and manuscripts David Pengelley has been a driving force in unraveling this mystery and here he masterfully guides his readers along a path of discovery Germain because of her circumstances as the first woman to do important original mathematical research was forced to learn most of what we now include in an undergraduate number theory course for herself Pengelley has taken excerpts of her writings and those of others and by asking his readers to decipher them skillfully leads us through an inquiry based course in elementary number theory It is a detective story on multiple levels What is Sophie Germain thinking What do her mathematical writings mean How do we understand what she knew and what she was trying to do where she succeeded and where she didn't Number Theory Through the Eyes of Sophie Germain is simultaneously a masterpiece of historical scholarship a guide to reading and teaching from primary source historical documents an inquiry based textbook for introductory number theory and the riveting story of a major but still unappreciated mathematician Work is required of the reader Readers are carefully guided to discover and prove almost all results for themselves in a sequence of scaffolded exploratory tasks with hints fully integrated with the narrative The difficulty of the inquiry tasks varies considerably but the author provides the reader with appropriately helpful guidance at every step An introductory number theory course taught with this text would be a remarkable potentially life changing experience Stephen Kennedy Carleton College and MAA Press

Sophie Germain Dora Musielak, 2020-03-23 This biography of the mathematician Sophie Germain paints a rich portrait of a brilliant and complex woman the mathematics she developed her associations with Gauss Legendre and other leading researchers and the tumultuous times in which she lived Sophie Germain stood right between Gauss and Legendre and both publicly recognized her scientific efforts Unlike her female predecessors and contemporaries Sophie Germain was an impressive mathematician and made lasting contributions to both number theory and the theories of plate vibrations and elasticity She was able to walk with ease across the bridge between the fields of pure mathematics and engineering physics Though isolated and snubbed by her peers Sophie Germain was the first woman to win the prize of mathematics from the French Academy of Sciences She is the only woman who contributed to the proof of Fermat's Last Theorem In this unique biography Dora Musielak has done the impossible she has chronicled Sophie Germain's brilliance through her life and work in mathematics in a way that is simultaneously informative comprehensive and accurate Sophie Germain Stephen Ornes, 2008 Sophie Germain was born with a natural talent and a love for mathematics but she was also born at a time when it was deemed unacceptable for a woman to pursue serious intellectual study She was determined though and would not let

anything stand in her pursuit of mathematics Through coincidence and ingenuity Germain managed to pursue an education at a prestigious institution under an assumed name then upon discovery won over many doubters with her skill and passion It was a problem involving vibrating plates though in which Germain found her greatest challenge She spent years trying to explain natural phenomena with mathematics persevering against failures and prejudice ultimately opening a new branch of applied mathematics and securing her place in history Book jacket *Sophie Germain*, 2006 **Sophie Germain** L.L. Bucciarelli, N. Dworsky, 2012-12-06 Why should the story of a woman's role in the development of a scientific theory be written Is it to celebrate as some have done the heroism of a woman's struggle in a man's world Or is it rather to demonstrate that gender is irrelevant to the march of scientific ideas This book hopes to do neither Rather it intends to do justice both to the professional life of a woman in science and to the development of the theory with which she was engaged Technically this essay centers on Sophie Germain's analysis of the modes of vibration of elastic surfaces work which won a competition set by the French Academy of Sciences in 1809 It also evaluates related work on the mathematical theory of elasticity done by men of the Academy Biographically it is about a woman who believed in the greatness of science and strove with some measure of success to participate in that noble but wholly male dominated enterprise It explores her failures analyzes her success and describes how the members of the Parisian scientific community dealt with her offerings contributions and demands **Nothing Stopped Sophie** Cheryl Bardoe, 2018-06-12 The true story of eighteenth century mathematician Sophie Germain who solved the unsolvable to achieve her dream When her parents took away her candles to keep their young daughter from studying math nothing stopped Sophie When a professor discovered that the homework sent to him under a male pen name came from a woman nothing stopped Sophie And when she tackled a math problem that male scholars said would be impossible to solve still nothing stopped Sophie For six years Sophie Germain used her love of math and her undeniable determination to test equations that would predict patterns of vibrations She eventually became the first woman to win a grand prize from France's prestigious Academy of Sciences for her formula which laid the groundwork for much of modern architecture and can be seen in the book's illustrations Award winning author Cheryl Bardoe's inspiring and poetic text is brought to life by acclaimed artist Barbara McClintock's intricate pen and ink watercolor and collage illustrations in this true story about a woman who let nothing stop her Complexities Bettye Anne Case, Anne M. Leggett, 2016-05-31 Sophie Germain taught herself mathematics by candlelight huddled in her bedclothes Ada Byron Lovelace anticipated aspects of general purpose digital computing by more than a century Cora Ratto de Sadosky advanced messages of tolerance and equality while sharing her mathematical talents with generations of students This captivating book gives voice to women mathematicians from the late eighteenth century through to the present day It documents the complex nature of the conditions women around the world have faced and continue to face while pursuing their careers in mathematics The stories of the three women above and those of many more appear here each one enlightening and inspiring

The earlier parts of the book provide historical context and perspective beginning with excursions into the lives of fifteen women born before 1920. Included are histories of collective efforts to improve women's opportunities in research mathematics. In addition, a photo essay puts a human face on the subject as it illustrates women's contributions in professional associations. More than eighty women from academe, government, and the private sector provide a rich mélange of insights and strategies for creating workable career paths while maintaining rewarding personal lives. The book discusses related social and cultural issues and includes a summary of recent comparative data relating to women and men in mathematics and women from other sciences. First person accounts provide explicit how-tos. Many narratives demonstrate great determination and perseverance. Talented women vividly portray their pleasure in discovering new mathematics. The senior among them speak out candidly, interweaving their mathematics with autobiographical detail. At the beginning of a new century, women at all stages of their careers share their outlooks and experiences. Clear, engaging, and meticulously researched complexities will inspire young women who are contemplating careers in mathematics and will speak to women in many fields of endeavor and walks of life.

Sophie's Diary Dora Musielak, 2022-08-11 Sophie Germain overcame gender stigmas and a lack of formal education to prove that for all prime exponents less than 100, Case I of Fermat's Last Theorem holds. Hidden behind a man's name, her brilliance as mathematician was first discovered by three of the greatest scholars of the eighteenth century: Lagrange, Gauss, and Legendre. In Sophie's Diary, Germain comes to life through a fictionalized journal that intertwines mathematics with historical descriptions of the brutal events that took place in Paris between 1789 and 1793. This format provides a plausible perspective of how a young Sophie could have learned mathematics on her own, both fascinated by numbers and eager to master tough subjects without a teacher's guidance. Her passion for mathematics is integrated into her personal life as an escape from societal outrage. Sophie's Diary is suitable for a variety of readers, both young and old, mathematicians and novices who will be inspired and enlightened on a field of study made easy as told through the intellectual and personal struggles of an exceptional young woman.

Stream Ciphers and Number Theory Thomas W. Cusick, Cunsheng Ding, Ari R. Renvall, 2004-02-17 This is the unique book on cross-fertilisations between stream ciphers and number theory. It systematically and comprehensively covers known connections between the two areas that are available only in research papers. Some parts of this book consist of new research results that are not available elsewhere. In addition to exercises, over thirty research problems are presented in this book. In this revised edition, almost every chapter was updated, and some chapters were completely rewritten. It is useful as a textbook for a graduate course on the subject as well as a reference book for researchers in related fields. Unique book on interactions of stream ciphers and number theory. Research monograph with many results not available elsewhere. A revised edition with the most recent advances in this subject. Over thirty research problems for stimulating interactions between the two areas. Written by leading researchers in stream ciphers and number theory.

An Episodic History of Mathematics Steven G. Krantz, 2010-04 An Episodic History of

Mathematics delivers a series of snapshots of the history of mathematics from ancient times to the twentieth century. The intent is not to be an encyclopedic history of mathematics but to give the reader a sense of mathematical culture and history. The book abounds with stories and personalities play a strong role. The book will introduce readers to some of the genesis of mathematical ideas. Mathematical history is exciting and rewarding and is a significant slice of the intellectual pie. A good education consists of learning different methods of discourse and certainly mathematics is one of the most well developed and important modes of discourse that we have. The focus in this text is on getting involved with mathematics and solving problems. Every chapter ends with a detailed problem set that will provide the student with many avenues for exploration and many new entrees into the subject.

Fermat's Last Theorem Harold M. Edwards, 1996-02-23 This introduction to algebraic number theory via the famous problem of Fermat's Last Theorem follows its historical development beginning with the work of Fermat and ending with Kummer's theory of ideal factorization. The more elementary topics such as Euler's proof of the impossibility of $x^n + y^n = z^n$ are treated in an uncomplicated way and new concepts and techniques are introduced only after having been motivated by specific problems. The book also covers in detail the application of Kummer's theory to quadratic integers and relates this to Gauss' theory of binary quadratic forms, an interesting and important connection that is not explored in any other book.

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 Stanisława 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.

Ladies in the Laboratory II Mary R.S. Creese, Thomas M. Creese, 2004-05-17 The lives of many of the nineteenth century's most notable women of science are presented in English for the first time in this companion volume to *Ladies in the Laboratory: American and British Women in Science*. The present volume bridges a considerable gap in English literature available on women from twelve west European countries and their work in the biological and medical sciences, mathematics and social sciences. A fascinating analysis of the work of notable women by national group, giving thorough data comparing the contributions of women in choice fields. Among the women presented are

more than a few colorful personalities representative of the entire social scale from a royal princess to the daughter of a Paris slum shopkeeper Researchers in the field of women s history and science history will find this indexed volume a valuable resource

Number Theory John J. Watkins, 2013-12-29 An introductory textbook with a unique historical approach to teaching number theory The natural numbers have been studied for thousands of years yet most undergraduate textbooks present number theory as a long list of theorems with little mention of how these results were discovered or why they are important This book emphasizes the historical development of number theory describing methods theorems and proofs in the contexts in which they originated and providing an accessible introduction to one of the most fascinating subjects in mathematics Written in an informal style by an award winning teacher Number Theory covers prime numbers Fibonacci numbers and a host of other essential topics in number theory while also telling the stories of the great mathematicians behind these developments including Euclid Carl Friedrich Gauss and Sophie Germain This one of a kind introductory textbook features an extensive set of problems that enable students to actively reinforce and extend their understanding of the material as well as fully worked solutions for many of these problems It also includes helpful hints for when students are unsure of how to get started on a given problem Uses a unique historical approach to teaching number theory Features numerous problems helpful hints and fully worked solutions Discusses fun topics like Pythagorean tuning in music Sudoku puzzles and arithmetic progressions of primes Includes an introduction to Sage an easy to learn yet powerful open source mathematics software package Ideal for undergraduate mathematics majors as well as non math majors Digital solutions manual available only to professors

Women of Genius in Science Lars Jaeger, 2023-01-13 Although women participated in shaping scientific thinking from the outset they very rarely became visible This imbalance continues today although there are currently more female scientists than ever before Lars Jaeger spans an arc from antiquity to the present day and portrays the lives and work of the most important female scientists and mathematicians in essay like introductions From Hypatia of Alexandria to Emmy Noether and Lisa Randall they have all achieved great things decisively advanced science and yet often could not step out of the shadow of their male colleagues In addition to the exciting portraits of the individual women scientists the book also sheds light on gender relations in science and their agonisingly slow evolution in favour of women

Numbers and Narratives Maria Tamboukou, 2025-09-10 Why have there been so few women mathematicians This book does not seek an answer in absence but in the forces ruptures and intensities that shape the becoming of a femme philosophe a mathematician scientist and philosopher within the shifting assemblages of eighteenth and nineteenth century Europe Moving beyond exclusion as mere negation it traces the conditions of emergence the differential speeds and slippages through which women entered inhabited and transformed the mathematical sciences Drawing on auto biographical documents literary and philosophical writings and the materialities of the archive this book approaches the digital turn not as a tool but as a plane of composition where new trajectories of memory work unfold Between historiography and fabulation it

maps a space where women's mathematical thought was not only possible but inevitable if only in flashes, excesses and detours. This book will resonate with scholars in the sociology, history and philosophy of science and mathematics, particularly those engaged with feminist thought, the politics of knowledge and experimental archival methods.

The Little Book of Bigger Primes Paulo Ribenboim, 2013-03-09. This book could have been called *Selections from the Book of Prime Number Records*. However, I preferred the title which propelled you on the first place to open it and perhaps so I hope to buy it. Richard K. Guy with his winning ways suggested the title to me and I am grateful. But the book isn't very different from its parent. Like a bonsai which has all the main characteristics of the full-sized tree, this little paperback should exert the same fatal attraction. I wish it to be as dangerous as the other one in the saying of John Brillhart: I wish that you, young student, teacher or retired mathematician, engineer, computer buff, all of you who are friends of numbers, to be driven into thinking about the beautiful theory of prime numbers with its inherent mystery. I wish you to exercise your brain and fingers, not vice versa. But I do not wish you, specialist in number theory, to look at this little book, most likely you have been eliminated from this shorter version. What a terrible feeling! But do not cry, you had your book already. This one is for those who will be taking over and should put their steps forward, mostly little, occasionally giant, to develop the science of numbers.

Paulo Ribenboim
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Scientia Magna, Vol. 8, No. 2, 2012
 Zhang Wenpeng, Papers on Smarandache groupoids: a new class of generalized semiclosed sets using grills
 Smarandache friendly numbers: a simple proof of the Sophie Germain primes problem along with the Mersenne primes problem and their connection to the Fermat's last conjecture
 uniqueness of solutions of linear integral equations of the first kind with two variables and similar topics

Contributors: A. A. Nithya, I. A. Rani, I. Arockiarani, V. Vinodhini, A. A. K. Majumdar, N. Subramanian, C. Murugesan, I. A. G. Nemron, S. I. Cenberci, B. Peker, P. Muralikrishna, M. Chandramouleeswaran, I. A. Rani, A. Karthika and others.

Elementary Number Theory with Applications Thomas Koshy, 2007-05-08. This second edition updates the well-regarded 2001 publication with new short sections on topics like Catalan numbers and their relationship to Pascal's triangle and Mersenne numbers. Pollard rho factorization method, Hoggatt-Hensell identity. Koshy has added a new chapter on continued fractions. The unique features of the first edition like news of recent discoveries, biographical sketches of mathematicians and applications like the use of congruence in scheduling of a round robin tournament are being refreshed with current information. More challenging exercises are included both in the textbook and in the instructor's manual. *Elementary Number Theory with Applications 2e* is ideally suited for undergraduate students and is especially appropriate for prospective and in-service math teachers at the high school and middle school levels. Loaded with pedagogical features including fully worked examples, graded exercises, chapter summaries and computer exercises. Covers crucial applications of theory like computer security, ISBNs, ZIP codes and UPC bar codes. Biographical sketches lay out the history of mathematics, emphasizing its roots in India and the Middle East.

The Foundations of Mathematics Michael J. Bradley, 2006 During the 16th and 17th centuries mathematicians developed a wealth of new ideas but had not carefully employed accurate definitions proofs or procedures to document and implement them However in the early 19th century mathematicians began to recognize the need to precisely define their terms to logically prove even obvious principles and to use rigorous methods of manipulation The Foundations of Mathematics presents the lives and accomplishments of 10 mathematicians who lived between CE 1800 and 1900 and contributed to one or more of the four major initiatives that characterized the rapid growth of mathematics during the 19th century the introduction of rigor the investigation of the structure of mathematical systems the development of new branches of mathematics and the spread of mathematical activity throughout Europe This readable new volume communicates the importance and impact of the work of the pioneers who redefined this area of study

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