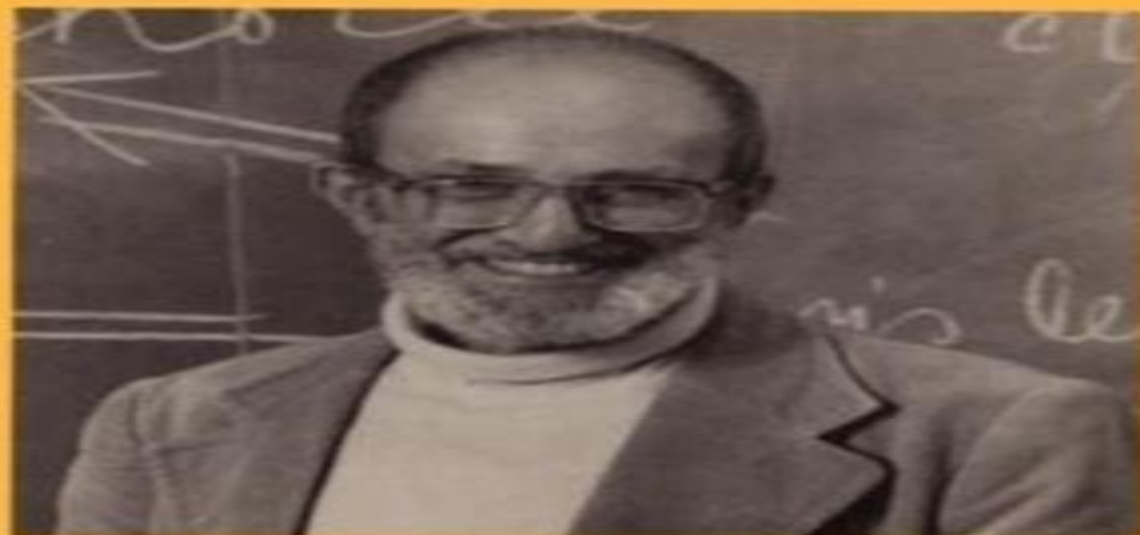


**John H. Ewing • F.W. Gehring**  
Editors



# **PAUL HALMOS**

**Celebrating 50 Years  
of Mathematics**



**Springer-Verlag**

# Paul Halmos Celebrating 50 Years Of Mathematics

**Paul Richard Halmos, John Ewing, F.W.  
Gehring**



## **Paul Halmos Celebrating 50 Years Of Mathematics:**

PAUL HALMOS Celebrating 50 Years of Mathematics Paul Richard Halmos, John Ewing, F.W. Gehring, 1991-05-20 Paul Halmos will celebrate his 75th birthday on the 3rd of March 1991 This volume from colleagues is an expression of affection for the man and respect for his contributions as scholar writer and teacher It contains articles about Paul about the times in which he worked and the places he has been and about mathematics Paul has furthered his profession in many ways and this collection reflects that diversity Articles about Paul are not biographical but rather tell about his ideas his philosophy and his style Articles about the times and places in which Paul has worked describe people events and ways in which Paul has influenced students and colleagues over the past 50 years Articles about mathematics are about all kinds of mathematics including operator theory and Paul's research in the subject This volume represents a slice of mathematical life and it shows how many parts of mathematics Paul has touched It is fitting that this volume has been produced with the support and cooperation of Springer Verlag For over 35 years Paul has contributed to mathematics publishing as founder and editor of many outstanding series      **Paul Halmos** John H. Ewing, Paul R. Halmos, F. W. Gehring, 1991-01-01      *PAUL HALMOS Celebrating 50 Years of Mathematics* John Ewing, F.W. Gehring, 2012-12-06 Paul Halmos will celebrate his 75th birthday on the 3rd of March 1991 This volume from colleagues is an expression of affection for the man and respect for his contributions as scholar writer and teacher It contains articles about Paul about the times in which he worked and the places he has been and about mathematics Paul has furthered his profession in many ways and this collection reflects that diversity Articles about Paul are not biographical but rather tell about his ideas his philosophy and his style Articles about the times and places in which Paul has worked describe people events and ways in which Paul has influenced students and colleagues over the past 50 years Articles about mathematics are about all kinds of mathematics including operator theory and Paul's research in the subject This volume represents a slice of mathematical life and it shows how many parts of mathematics Paul has touched It is fitting that this volume has been produced with the support and cooperation of Springer Verlag For over 35 years Paul has contributed to mathematics publishing as founder and editor of many outstanding series      Paul Halmos Celebrating 50 Years of Mathematics John H Ewing, F. W. Gehring, 1991-05-20      **A Glimpse at Hilbert Space Operators** Sheldon Axler, Peter Rosenthal, Donald Sarason, 2011-04-13 Paul Richard Halmos who lived a life of unbounded devotion to mathematics and to the mathematical community died at the age of 90 on October 2 2006 This volume is a memorial to Paul by operator theorists he inspired Paul's initial research beginning with his 1938 Ph D thesis at the University of Illinois under Joseph Doob was in probability ergodic theory and measure theory A shift occurred in the 1950s when Paul's interest in foundations led him to invent a subject he termed algebraic logic resulting in a succession of papers on that subject appearing between 1954 and 1961 and the book Algebraic Logic published in 1962 Paul's first two papers in pure operator theory appeared in 1950 After 1960 Paul's research focused on Hilbert space operators a subject he viewed as encompassing

finite dimensional linear algebra Beyond his research Paul contributed to mathematics and to its community in manifold ways as a renowned expositor as an innovative teacher as a tireless editor and through unstinting service to the American Mathematical Society and to the Mathematical Association of America Much of Paul's influence owed at a personal level Paul had a genuine uncalculating interest in people he developed an enormous number of friendships over the years both with mathematicians and with nonmathematicians Many of his mathematical friends including the editors of this volume while absorbing abundant quantities of mathematics at Paul's knee learned from his advice and his example what it means to be a mathematician

**Introduction to Large Truncated Toeplitz Matrices** Albrecht Böttcher, Bernd Silbermann, 2012-12-06 Introduction to Large Truncated Toeplitz Matrices is a text on the application of functional analysis and operator theory to some concrete asymptotic problems of linear algebra The book contains results on the stability of projection methods deals with asymptotic inverses and Moore Penrose inversion of large Toeplitz matrices and embarks on the asymptotic behavior of the norms of inverses the pseudospectra the singular values and the eigenvalues of large Toeplitz matrices The approach is heavily based on Banach algebra techniques and nicely demonstrates the usefulness of  $C^*$  algebras and local principles in numerical analysis The book includes classical topics as well as results obtained and methods developed only in the last few years Though employing modern tools the exposition is elementary and aims at pointing out the mathematical background behind some interesting phenomena one encounters when working with large Toeplitz matrices The text is accessible to readers with basic knowledge in functional analysis It is addressed to graduate students teachers and researchers with some inclination to concrete operator theory and should be of interest to everyone who has to deal with infinite matrices Toeplitz or not and their large truncations

*Mathematics by Experiment* Jonathan Borwein, David Bailey, 2008-10-27 This revised and updated second edition maintains the content and spirit of the first edition and includes a new chapter Recent Experiences that provides examples of experimental mathematics that have come to light since the publication of the first edition in 2003 For more examples and insights Experimentation in Mathematics Computational P

Accuracy and Stability of Numerical Algorithms Nicholas J. Higham, 2002-01-01 Accuracy and Stability of Numerical Algorithms gives a thorough up to date treatment of the behavior of numerical algorithms in finite precision arithmetic It combines algorithmic derivations perturbation theory and rounding error analysis all enlivened by historical perspective and informative quotations This second edition expands and updates the coverage of the first edition 1996 and includes numerous improvements to the original material Two new chapters treat symmetric indefinite systems and skew symmetric systems and nonlinear systems and Newton's method Twelve new sections include coverage of additional error bounds for Gaussian elimination rank revealing LU factorizations weighted and constrained least squares problems and the fused multiply add operation found on some modern computer architectures

**Proof and Proving in Mathematics Education** Gila Hanna, Michael de Villiers, 2012-06-14 THIS BOOK IS AVAILABLE AS OPEN ACCESS BOOK ON SPRINGERLINK One of the most significant

tasks facing mathematics educators is to understand the role of mathematical reasoning and proving in mathematics teaching so that its presence in instruction can be enhanced This challenge has been given even greater importance by the assignment to proof of a more prominent place in the mathematics curriculum at all levels Along with this renewed emphasis there has been an upsurge in research on the teaching and learning of proof at all grade levels leading to a re examination of the role of proof in the curriculum and of its relation to other forms of explanation illustration and justification This book resulting from the 19th ICMI Study brings together a variety of viewpoints on issues such as The potential role of reasoning and proof in deepening mathematical understanding in the classroom as it does in mathematical practice The developmental nature of mathematical reasoning and proof in teaching and learning from the earliest grades The development of suitable curriculum materials and teacher education programs to support the teaching of proof and proving The book considers proof and proving as complex but foundational in mathematics Through the systematic examination of recent research this volume offers new ideas aimed at enhancing the place of proof and proving in our classrooms

Games of No Chance 3 Michael H. Albert, Richard J. Nowakowski, 2009-05-29 This fascinating look at combinatorial games that is games not involving chance or hidden information offers updates on standard games such as Go and Hex on impartial games such as Chomp and Wythoff's Nim and on aspects of games with infinitesimal values plus analyses of the complexity of some games and puzzles and surveys on algorithmic game theory on playing to lose and on coping with cycles The volume is rounded out with an up to date bibliography by Fraenkel and for readers eager to get their hands dirty a list of unsolved problems by Guy and Nowakowski Highlights include some of Siegel's groundbreaking work on loopy games the unveiling by Friedman and Landsberg of the use of renormalization to give very intriguing results about Chomp and Nakamura's Counting Liberties in Capturing Races of Go Like its predecessors this book should be on the shelf of all serious games enthusiasts

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