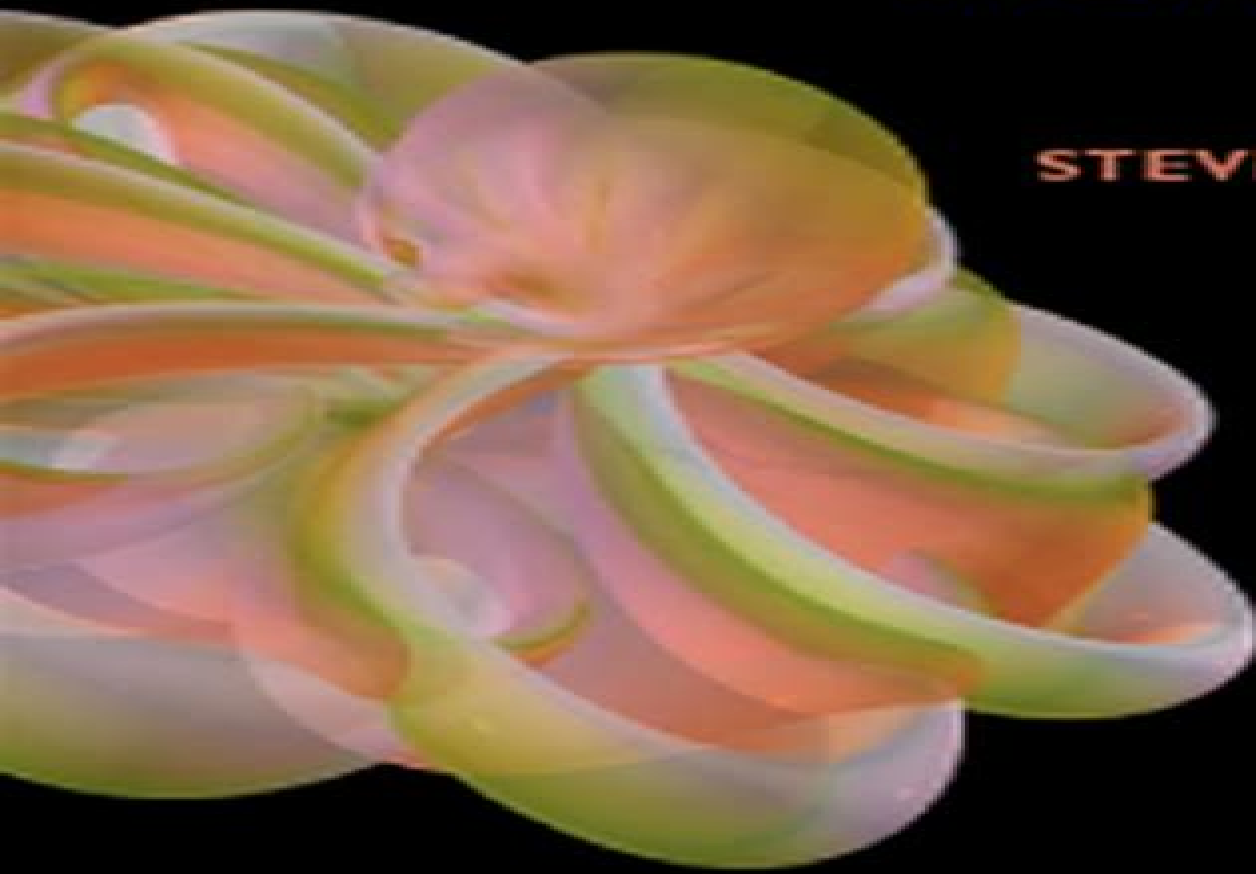


STEPHEN SMALE:

The Mathematician Who Broke
the Dimension Barrier

STEVE BATTERSON



Stephen Smale The Mathematician Who Broke The Dimension Barrier

Kai Cieliebak, Y. Eliashberg



Stephen Smale The Mathematician Who Broke The Dimension Barrier:

Stephen Smale: The Mathematician Who Broke the Dimension Barrier Steve Batterson, 2012-12-30 In 1957 Stephen Smale startled the mathematical world by showing that in a theoretical sense it is possible to turn a sphere inside out A few years later from the beaches of Rio he introduced the horseshoe map demonstrating that simple functions could have chaotic dynamics His next stunning mathematical accomplishment was to solve the higher dimensional Poincare conjecture thus demonstrating that higher dimensions are simpler than the more familiar three In 1966 in Moscow he was awarded the Fields Medal the most prestigious prize in mathematics Smale's vision and influence extended beyond mathematics into two vastly different realms In 1965 in Berkeley he initiated a program with Jerry Rubin of civil disobedience directed at ending the Vietnam War And as a mineral collector he accumulated a museum quality collection that ranks among the finest in the world Despite these diverse accomplishments Smale's name is virtually unknown outside mathematics and mineral collecting One of the objectives of this book is to bring his life and work to the attention of a larger community There are few good biographies of mathematicians This makes sense when considering that to place their lives in perspective requires some appreciation of their theorems Biographical writers are not usually trained in mathematics and mathematicians do not usually write biographies Though the author Steve Batterson is primarily a mathematician he has long been intrigued by the notion of working on a biography of Smale In this book Batterson records and makes known the life and accomplishments of this great mathematician and significant figure in intellectual history *Stephen Smale - Reaching Higher Dimensions* Steve Batterson, Kate Springer, 2024-07-17 In 2000 the American Mathematical Society published a biography of Professor Stephen Smale who had recently retired from a prestigious career at the University of California Berkeley But in retirement Professor Smale has continued his academic pursuits through the present day resulting in numerous additional publications and honors in the past 20 years As part of the CityU Legacy Series this book documents Professor Smale's time at City University of Hong Kong during his first appointment as a Distinguished University Professor in the Department of Mathematics from 1995 2001 as well as when he returned from 2009 2016 It also covers colorful and adventurous aspects of his life including his impressive mineral collection and intrepid sailing and hiking trips to exotic locales So that readers can experience the full extent of Professor Smale's notable life and work the previous biography about him is included to provide a complete picture of this renowned scholar of international influence A fascinating and inspiring story of how Steve Smale a bright yet seemingly unexceptional country boy became one of the most brilliant and influential mathematicians on the planet Lenore Blum Distinguished Career Professor of Computer Science Emerita Carnegie Mellon University I first met Steve during a visit to Berkeley I did not foresee that the visit would mark the beginning of a long lasting relationship including but going well beyond mathematical collaboration Felipe Cucker Emeritus Professor Department of Mathematics City University of Hong Kong **Breaking the Glass Ceiling of Science** Stella Butler, 2025-11-13 In 1945 women joined the ranks of the Royal

Society the UK's premier scientific academy for the first time Over the next decade 11 women became FRSs Few of these women are well known yet they all made extraordinary contributions to the sciences and medical treatments helping shape the postwar world Dame Honor Fell led the laboratory that developed the techniques that led to IVF Dorothy Hodgkin worked out the structure of penicillin Muriel Robertson helped reduce the impact of sleeping sickness Agnes Arber and Sidnie Manton were recognised naturalists All battled prejudice and hardship their journeys involving travel political persecution and exhausting hours in areas traditionally dominated by men Their achievements made cracks in the glass ceiling making it easier for later generations of young women to enjoy careers in science This book pays tribute to their achievements and considers why many have slipped from our memories

Routledge International Handbook of Complexity Economics Ping Chen, Wolfram Elsner, Andreas Pyka, 2024-11-29 The Routledge International Handbook of Complexity Economics covers the historical developments and early concerns of complexity theorists and brings them into engagement with the world today In this volume a distinguished group of international scholars explore the state of the art of complexity economics and how it may deliver new and relevant insights to the challenges of the 21st century Complexity science started in 1899 when Henri Poincaré described the three body problem The first approaches in economics emerged somewhat later in the 1980s driven by the Brussels Austin school Since then complexity economics has gone through numerous developments departing from linear simplifications applying physical algorithms to evolutionary economics and big data This book covers the basic principles and methods and offers an overview of the various domains ranging from diverse fields of productivity studies agricultural economics to monetary economics as well as the current challenges such as climate change epidemics and economic inequality where complexity economics can provide insight It closes with a review of complexity political economy and policy Offering a vibrant alternative to orthodox economics this handbook is a crucial resource for advanced students researchers and economists across the disciplines of heterodox economics economic theory and econophysics

Mathematics of Complexity and Dynamical Systems Robert A. Meyers, 2011-10-05 Mathematics of Complexity and Dynamical Systems is an authoritative reference to the basic tools and concepts of complexity systems theory and dynamical systems from the perspective of pure and applied mathematics Complex systems are systems that comprise many interacting parts with the ability to generate a new quality of collective behavior through self organization e.g. the spontaneous formation of temporal spatial or functional structures These systems are often characterized by extreme sensitivity to initial conditions as well as emergent behavior that are not readily predictable or even completely deterministic The more than 100 entries in this wide ranging single source work provide a comprehensive explication of the theory and applications of mathematical complexity covering ergodic theory fractals and multifractals dynamical systems perturbation theory solitons systems and control theory and related topics Mathematics of Complexity and Dynamical Systems is an essential reference for all those interested in mathematical complexity from undergraduate and graduate students up

through professional researchers Growing Explanations M. Norton Wise, 2004-11-24 This collection addresses a post WWII shift in the hierarchy of scientific explanations where the highest goal moves from reductionism towards some understanding of how elementary objects get built up or grown up into complex objects whose *Topology And Dynamics Of Chaos: In Celebration Of Robert Gilmore's 70th Birthday* Christophe Letellier, Robert Gilmore, 2013-01-11 The book surveys how chaotic behaviors can be described with topological tools and how this approach occurred in chaos theory Some modern applications are included The contents are mainly devoted to topology the main field of Robert Gilmore's works in dynamical systems They include a review on the topological analysis of chaotic dynamics works done in the past as well as the very latest issues Most of the contributors who published during the 90's including the very well known scientists Otto Rössler Ren Lozi and Joan Birman have made a significant impact on chaos theory discrete chaos and knot theory respectively Very few books cover the topological approach for investigating nonlinear dynamical systems The present book will provide not only some historical not necessarily widely known contributions about the different types of chaos introduced by Rössler and not just the Rössler attractor Gumowski and Mira's contributions in electronics Poincaré's heritage in nonlinear dynamics but also some recent applications in laser dynamics biology etc **A History of Mathematics** Luke Hodgkin, 2013-02-21 A History of Mathematics From Mesopotamia to Modernity covers the evolution of mathematics through time and across the major Eastern and Western civilizations It begins in Babylon then describes the trials and tribulations of the Greek mathematicians The important and often neglected influence of both Chinese and Islamic mathematics is covered in detail placing the description of early Western mathematics in a global context The book concludes with modern mathematics covering recent developments such as the advent of the computer chaos theory topology mathematical physics and the solution of Fermat's Last Theorem Containing more than 100 illustrations and figures this text aimed at advanced undergraduates and postgraduates addresses the methods and challenges associated with studying the history of mathematics The reader is introduced to the leading figures in the history of mathematics including Archimedes Ptolemy Qin Jiushao al Kashi al Khwarizmi Galileo Newton Leibniz Helmholtz Hilbert Alan Turing and Andrew Wiles and their fields An extensive bibliography with cross references to key texts will provide invaluable resource to students and exercises with solutions will stretch the more advanced reader **A History of Mathematics in the United States and Canada** David E. Zitarelli, 2022-10-25 This is the first truly comprehensive and thorough history of the development of mathematics and a mathematical community in the United States and Canada This first volume of the multi volume work takes the reader from the European encounters with North America in the fifteenth century up to the emergence of a research community the United States in the last quarter of the nineteenth In the story of the colonial period particular emphasis is given to several prominent colonial figures Jefferson Franklin and Rittenhouse and four important early colleges Harvard Qu'bec William Mary and Yale During the first three quarters of the nineteenth century mathematics in North America was largely the

occupation of scattered individual pioneers Bowditch Farrar Adrain B Peirce This period is given a fuller treatment here than previously in the literature including the creation of the first PhD programs and attempts to form organizations and found journals With the founding of Johns Hopkins in 1876 the American mathematical research community was finally and firmly founded The programs at Hopkins Chicago and Clark are detailed as are the influence of major European mathematicians including especially Klein Hilbert and Sylvester Klein's visit to the US and his Evanston Colloquium are extensively detailed The founding of the American Mathematical Society is thoroughly discussed David Zitarelli was emeritus Professor of Mathematics at Temple University A decorated and acclaimed teacher scholar and expositor he was one of the world's leading experts on the development of American mathematics Author or co author of over a dozen books this was his magnum opus sure to become the leading reference on the topic and essential reading not just for historians In clear and compelling prose Zitarelli spins a tale accessible to experts generalists and anyone interested in the history of science in North America

Women Scientists in America Margaret W. Rossiter, 2012-04-02 With the thoroughness and resourcefulness that characterize the earlier volumes she recounts the rich history of the courageous and resolute women determined to realize their scientific ambitions

Mathematical Masterpieces Art Knoebel, Reinhard Laubenbacher, Jerry Lodder, David Pengelley, 2007-08-14 Intended for juniors and seniors majoring in mathematics as well as anyone pursuing independent study this book traces the historical development of four different mathematical concepts by presenting readers with the original sources Each chapter showcases a masterpiece of mathematical achievement anchored to a sequence of selected primary sources The authors examine the interplay between the discrete and continuous with a focus on sums of powers They then delineate the development of algorithms by Newton Simpson and Smale Next they explore our modern understanding of curvature and finally they look at the properties of prime numbers The book includes exercises numerous photographs and an annotated bibliography

The Visual Mind II Michele Emmer, 2005 This collection of essays by artists and mathematicians continues the discussion of the connections between art and mathematics begun in the widely read first volume of *The Visual Mind* in 1993

BOOK JACKET

The Man Who Saved Geometry Siobhan Roberts, 2024-10-29 An illuminating biography of one of the greatest geometers of the twentieth century Driven by a profound love of shapes and symmetries Donald Coxeter 1907-2003 preserved the tradition of classical geometry when it was under attack by influential mathematicians who promoted a more algebraic and austere approach His essential contributions include the famed Coxeter groups and Coxeter diagrams tools developed through his deep understanding of mathematical symmetry *The Man Who Saved Geometry* tells the story of Coxeter's life and work placing him alongside history's greatest geometers from Pythagoras and Plato to Archimedes and Euclid and it reveals how Coxeter's boundless creativity reflects the adventurous ever evolving nature of geometry itself With an incisive touching foreword by Douglas R Hofstadter *The Man Who Saved Geometry* is an unforgettable portrait of a visionary mathematician

[The Prosecution of Professor Chandler Davis](#) Steve

Batterson,2023-08-08 Exposes the destruction of academic careers and the complicity of educational institutions in McCarthy s America The Prosecution of Professor Chandler Davis tells the true tale of a mathematician who found himself taking an involuntary break from chalking equations to sit opposite a row of self righteous anti Communist congressmen at the height of the McCarthy era Courageously asserting the First Amendment to confront a system rapidly descending into fascism Davis testified before the House Un American Activities Committee HUAC He became one of a small number of left wingers who served time for contempt of Congress In this fascinating and disturbing narrative author Steve Batterson takes a deep dive into extant archival records generated by the FBI HUAC the University of Michigan and repositories holding the papers of former Supreme Court justices He examines the plights of six faculty and graduate students including three future members of the National Academy of Sciences whose careers were disrupted by the anticommunist actions of a wide range of personnel at the University of Michigan He focuses on the seemingly conflicting Supreme Court decisions on labor leader John Watkins and Vassar College Psychology instructor Lloyd Barenblatt And he examines the role played in the trial by Felix Frankfurter a longtime Associate Justice on the Supreme Court close advisor of Franklin D Roosevelt and co founder of the ACLU In the process Batterson exposes the ways that McCarthy s righteous emissaries relied on all kinds of institutions in 1950s America from Hollywood studios to universities to sabotage the careers of anyone with a trace of Red **The Lost**

Promise Ellen Schrecker,2021-12-17 Ellen Schrecker shows how universities shaped the 1960s and how the 1960s shaped them Teach ins and walkouts in institutions large and small across both the country and the political spectrum were only the first actions that came to redefine universities as hotbeds of unrest for some and handmaidens of oppression for others The tensions among speech education and institutional funding came into focus as never before and the reverberations remain palpable today *From Stein to Weinstein and Back* Kai Cieliebak,Y. Eliashberg,2012 A beautiful and comprehensive

introduction to this important field Dusa McDuff Barnard College Columbia University This excellent book gives a detailed clear and wonderfully written treatment of the interplay between the world of Stein manifolds and the more topological and flexible world of Weinstein manifolds Devoted to this subject with a long history the book serves as a super introduction to this area and also contains the authors new results Tomasz Mrowka MIT This book is devoted to the interplay between complex and symplectic geometry in affine complex manifolds Affine complex a k a Stein manifolds have canonically built into them symplectic geometry which is responsible for many phenomena in complex geometry and analysis The goal of the book is the exploration of this symplectic geometry the road from Stein to Weinstein and its applications in the complex geometric world of Stein manifolds the road back This is the first book which systematically explores this connection thus providing a new approach to the classical subject of Stein manifolds It also contains the first detailed investigation of Weinstein manifolds the symplectic counterparts of Stein manifolds which play an important role in symplectic and contact topology Assuming only a general background from differential topology the book provides introductions to the various techniques

from the theory of functions of several complex variables symplectic geometry h principles and Morse theory that enter the proofs of the main results The main results of the book are original results of the authors and several of these results appear here for the first time The book will be beneficial for all students and mathematicians interested in geometric aspects of complex analysis symplectic and contact topology and the interconnections between these subjects This book is devoted to the interplay between complex and symplectic geometry in affine complex manifolds Affine complex a k a Stein manifolds have canonically built into them symplectic geometry which is responsible for many phenomena in complex geometry and analysis The goal of the book is the exploration of this symplectic geometry the road from Stein to Weinstein and its applications in the complex geometric world of Stein manifolds the road back This is the first book which systematically explores this connection thus providing a new approach to the classical subject of Stein manifolds It also contains the first detailed investigation of Weinstein manifolds the symplectic counterparts of Stein manifolds which play an important role in symplectic and contact topology Assuming only a general background from differential topology the book provides introductions to the various techniques from the theory of functions of several complex variables symplectic geometry h principles and Morse theory that enter the proofs of the main results The main results of the book are original results of the authors and several of these results appear here for the first time The book will be beneficial for all students and mathematicians interested in geometric aspects of complex analysis symplectic and contact topology and the interconnections between these subjects

Linear and Nonlinear Functional Analysis with Applications, Second Edition Philippe G. Ciarlet, 2025-04-23 This new considerably expanded edition covers the fundamentals of linear and nonlinear functional analysis including distribution theory harmonic analysis differential geometry calculus of variations and degree theory Numerous applications are included especially to linear and nonlinear partial differential equations and to numerical analysis All the basic theorems are provided with complete and detailed proofs The author has added more than 450 pages of new material added more than 210 problems the solutions to all of the problems will be made available on an accompanying website added two entirely new chapters one on locally convex spaces and distribution theory and the other on the Fourier transform and Calder n Zygmund singular integral operators and enlarged and split the chapter on the great theorems of nonlinear functional analysis into two chapters one on the calculus of variations and the other on Brouwer s theorem Brouwer s degree and Leray Schauder s degree Ideal for both teaching and self study Linear and Nonlinear Functional Analysis with Applications Second Edition is intended for advanced undergraduate and graduate students in mathematics university professors and researchers It is also an ideal basis for several courses on linear or nonlinear functional analysis

History of Mathematics Vagn Lundsgaard Hansen, Jeremy Gray, 2010-12-20 History of Mathematics is a component of Encyclopedia of Mathematical Sciences in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The Theme on History of Mathematics discusses Mathematics in

Egypt and Mesopotamia History of Trigonometry to 1550 Mathematics in Japan The Mathematization of The Physical Sciences Differential Equations of Nature A Short History of Dynamical Systems Theory 1885 2007 Measure Theories and Ergodicity Problems The Number Concept and Number Systems Operations Research and Mathematical Programming From War to Academia A Joint Venture Elementary Mathematics From An Advanced Standpoint The History and Concept of Mathematical Proof Geometry in The 20th Century Bourbaki An Epiphenomenon in The History of Mathematics This volume is aimed at the following five major target audiences University and College Students Educators Professional Practitioners Research

Personnel and Policy Analysts Managers and Decision Makers NGOs and GOs **Bringing Bernard Lonergan Down to Earth and into Our Hearts and Communities** John Raymaker, Godefroid Alekiabo Mombula, 2018-11-29 Bernard Lonergan is a world renowned philosopher methodologist and theologian The complexity of his work has tended to limit his accessibility to average readers Bringing Bernard Lonergan Down to Earth seeks to remedy this limitation by showing how Lonergan did address problems of community life He also broadened his interest after writing Insight to include a reaching into our hearts as modeled for example by the genius Blaise Pascal Lonergan also sought to bridge religious divides Here the Christian theological virtues of faith hope and love are indispensable but that does not curtail from Lonergan's uncanny ability to reach out to secularists by focusing on ethics The importance of Lonergan's interdisciplinary work is signaled in the book's twelve explorations in the concluding Part IV that detail for interested readers his extraordinary ability to solve major philosophical issues Rings and Things and a Fine Array of Twentieth Century Associative Algebra Carl Clifton Faith, 2004

This book surveys more than 125 years of aspects of associative algebras especially ring and module theory It is the first to probe so extensively such a wealth of historical development Moreover the author brings the reader up to date in particular through his report on the subject in the second half of the twentieth century Included in the book are certain categorical properties from theorems of Frobenius and Stickelberger on the primary decomposition of finite Abelian formulations of the latter by Krull Goldman and others Maschke's theorem on the representation theory of finite groups over a field and the fundamental theorems of Wedderburn on the structure of finite dimensional algebras Goldie and others A special feature of the book is the in depth study of rings with chain condition on annihilator ideals pioneered by Noether Artin and Jacobson and refined and extended by many later mathematicians Two of the author's prior works Algebra Rings Modules and Categories I and II Springer Verlag 1973 are devoted to the development of modern associative algebra and ring and module theory Those bibliography of over 1 600 references and is exhaustively indexed In addition to the mathematical survey the author gives candid and descriptive impressions of the last half of the twentieth century in Part II Snapshots of fellow graduate students at the University of Kentucky and at Purdue Faith discusses his Fulbright Nato Postdoctoral at Heidelberg and at the Institute for Advanced Study IAS at Princeton his year as a visiting scholar at Berkeley and the many acquaintances he met there and in subsequent travels in India Europe and most recently Barcelona Comments on the first

edition Researchers in algebra should find it both full references as to the origin and development of the theorem I know of no other work in print which does this as thoroughly and as broadly John O Neill University of Detroit at Mercy Part II
Snapshots of Mathematicians of my age and younger will relish reading Snapshots James A Huckaba University of Missouri
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