Rafael Borovik

Remo Ruffini,Gregory Vereshchagin

Mathematics Under the Microscope Alexandre Borovik,2010 The author's goal is to start a dialogue between mathematicians and cognitive scientists. He discusses, from a working mathematician's point of view, the mystery of mathematical intuition: why are certain mathematical concepts more intuitive than others? To what extent does the ``small scale'' structure of mathematical concepts and algorithms reflect the workings of the human brain? What are the ``elementary particles'' of mathematics that build up the mathematical universe? The book is saturated with amusing examples from a wide range of disciplines--from turbulence to error-correcting codes to logic--as well as with just puzzles and brainteasers. Despite the very serious subject matter, the author's approach is lighthearted and entertaining. This is an unusual and unusually fascinating book. Readers who never thought about mathematics after their school years will be amazed to discover how many habits of mind, ideas, and even material objects that are inherently mathematical serve as building blocks of our civilization and everyday life. A professional mathematician, reluctantly breaking the daily routine, or pondering on some resisting problem, will open this book and enjoy a sudden return to his or her young days when mathematics was fresh, exciting, and holding all promises. And do not take the word ``microscope'' in the title too literally: in fact, the author looks around, in time and space, focusing in turn on a tremendous variety of motives, from mathematical ``memes'' (genes of culture) to an unusual life of a Hollywood star. --Yuri I. Manin, Max-Planck Institute of Mathematics, Bonn, and Northwestern University

The Mathematical Experience, Study Edition Philip Davis,Reuben Hersh,Elena Anne Marchisotto,2011-10-28 Winner of the 1983 National Book Award! ...a perfectly marvelous book about the Queen of Sciences, from which one will get a real feeling for what mathematicians do and who they are. The exposition is clear and full of wit and humor... - The New Yorker (1983 National Book Award edition) Mathematics has been a human activity for thousands of years. Yet only a few people from the vast population of users are professional mathematicians, who create, teach, foster, and apply it in a variety of situations. The authors of this book believe that it should be possible for these professional mathematicians to explain to non-professionals what they do, what they say they are doing, and why the world should support them at it. They also believe that mathematics should be taught to non-mathematics majors in such a way as to instill an appreciation of the power and beauty of mathematics. Many people from around the world have told the authors that they have done precisely that with the first edition and they have encouraged publication of this revised edition

complete with exercises for helping students to demonstrate their understanding. This edition of the book should find a new generation of general readers and students who would like to know what mathematics is all about. It will prove invaluable as a course text for a general mathematics appreciation course, one in which the student can combine an appreciation for the esthetics with some satisfying and revealing applications. The text is ideal for 1) a GE course for Liberal Arts students 2) a Capstone course for perspective teachers 3) a writing course for mathematics teachers. A wealth of customizable online course materials for the book can be obtained from Elena Anne Marchisotto (elena.marchisotto@csun.edu) upon request.

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SOCCER WORLD 2012/2013 Lorenzo Gravela,

Made in Brasil Arlindo Machado,2007

The Israeli Arms Industry Stewart Reiser,1989

Groups, Languages, Algorithms Alexandre Borovik,2005 Since the pioneering works of Novikov and Maltsev, group theory has been a testing ground for mathematical logic in its many manifestations, from the theory of algorithms to model theory. The interaction between logic and group theory led to many prominent results which enriched both disciplines. This volume reflects the major themes of the American Mathematical Society/Association for Symbolic Logic Joint Special Session (Baltimore, MD), Interactions between Logic, Group Theory and Computer Science. Included are papers devoted to the development of techniques used for the interaction of group theory and logic. It is suitable for graduate students and researchers interested in algorithmic and combinatorial group theory. A complement to this work is Volume 349 in the AMS series, Contemporary Mathematics, Computational and Experimental Group Theory, which arose from the same meeting and concentrates on the interaction of group theory and computer science.

Dark Alliance: Movie Tie-In Edition Gary Webb,2014-09-30 Major Motion Picture based on Dark Alliance and starring Jeremy Renner, Kill the Messenger, to be be released in Fall 2014 In August 1996, Pulitzer Prize-winning journalist Gary Webb stunned the world with a series of articles in the San Jose Mercury News reporting the results of his year-long investigation into the roots of the crack cocaine epidemic in America, specifically in Los Angeles. The series, titled "Dark Alliance," revealed that for the better part of a decade, a Bay Area drug ring sold tons of cocaine to Los Angeles street gangs and funneled millions in drug profits to the CIA-backed Nicaraguan Contras. Gary Webb pushed

his investigation even further in his book, Dark Alliance: The CIA, The Contras, and the Crack Cocaine Explosion. Drawing from then newly declassified documents, undercover DEA audio and videotapes that had never been publicly released, federal court testimony, and interviews, Webb demonstrates how our government knowingly allowed massive amounts of drugs and money to change hands at the expense of our communities. Webb's own stranger-than-fiction experience is also woven into the book. His excoriation by the media—not because of any wrongdoing on his part, but by an insidious process of innuendo and suggestion that in effect blamed Webb for the implications of the story—had been all but predicted. Webb was warned off doing a CIA expose by a former Associated Press journalist who lost his job when, years before, he had stumbled onto the germ of the "Dark Alliance" story. And though Internal investigations by both the CIA and the Justice Department eventually vindicated Webb, he had by then been pushed out of the Mercury News and gone to work for the California State Legislature Task Force on Government Oversight. He died in 2004.

Dark Alliance Gary Webb,2011-01-04 Major Motion Picture based on Dark Alliance and starring Jeremy Renner, Kill the Messenger, to be be released in Fall 2014 In August 1996, Pulitzer Prize-winning journalist Gary Webb stunned the world with a series of articles in the San Jose Mercury News reporting the results of his year-long investigation into the roots of the crack cocaine epidemic in America, specifically in Los Angeles. The series, titled "Dark Alliance," revealed that for the better part of a decade, a Bay Area drug ring sold tons of cocaine to Los Angeles street gangs and funneled millions in drug profits to the CIA-backed Nicaraguan Contras. Gary Webb pushed his investigation even further in his book, Dark Alliance: The CIA, The Contras, and the Crack Cocaine Explosion. Drawing from then newly declassified documents, undercover DEA audio and videotapes that had never been publicly released, federal court testimony, and interviews, Webb demonstrates how our government knowingly allowed massive amounts of drugs and money to change hands at the expense of our communities. Webb's own stranger-than-fiction experience is also woven into the book. His excoriation by the media—not because of any wrongdoing on his part, but by an insidious process of innuendo and suggestion that in effect blamed Webb for the implications of the story—had been all but predicted. Webb was warned off doing a CIA expose by a former Associated Press journalist who lost his job when, years before, he had stumbled onto the germ of the "Dark Alliance" story. And though Internal investigations by both the CIA and the Justice Department eventually vindicated Webb, he had by then been pushed out of the Mercury News and gone to work for the California State Legislature Task Force on Government Oversight. He died in 2004.

Chapel Hill Ergodic Theory Workshops Idris Assani,N.C.) Chapel Hill Ergodic Theory Workshops (2002-2003 : Chapel Hill,2004 This volume grew out of two ergodic theory workshops held at the University of North Carolina at Chapel Hill. These events gave young researchers an introduction to active research areas and promoted interaction between young and established mathematicians. Included are research and survey articles devoted to various topics in ergodic theory. The book is suitable for graduate students and researchers interested in these and related areas.

Nonstandard Models of Arithmetic and Set Theory Ali Enayat,Roman Kossak,2004 This is the proceedings of the AMS special session on nonstandard models of arithmetic and set theory held at the Joint Mathematics Meetings in Baltimore (MD). The volume opens with an essay from Haim Gaifman that probes the concept of non-standardness in mathematics and provides a fascinating mix of historical and philosophical insights into the nature of nonstandard mathematical structures. In particular, Gaifman compares and contrasts the discovery of nonstandard models with other key mathematical innovations, such as the introduction of various number systems, the modern concept of function, and non-Euclidean geometries. Other articles in the book present results related to nonstandard models in arithmetic and set theory, including a survey of known results on the Turing upper bounds of arithmetic sets and functions. The volume is suitable for graduate students and research mathematicians interested in logic, especially model theory.

Sixteenth Marcel Grossmann Meeting, The: On Recent Developments In Theoretical And Experimental General Relativity, Astrophysics, And Relativistic Field Theories - Proceedings Of The Mg16 Meeting On General Relativity (In 4 Volumes) Remo Ruffini,Gregory Vereshchagin,2022-12-15 The proceedings of MG16 give a broad view of all aspects of gravitational physics and astrophysics, from mathematical issues to recent observations and experiments. The scientific program of the meeting included 46 plenary presentations, 3 public lectures, 5 round tables and 81 parallel sessions arranged during the intense six-day online meeting. All talks were recorded and are available on the ICRANet YouTube channel at the following link: www.icranet.org/video_mg16.These proceedings are a representative sample of the very many contributions made at the meeting. They contain 383 papers, among which 14 come from the plenary sessions.The material represented in these proceedings cover the following topics: accretion, active galactic nuclei, alternative theories of gravity, black holes (theory, observations and experiments), binaries, boson stars, cosmic microwave background, cosmic strings, dark energy and large scale structure, dark matter, education, exact solutions, early universe, fundamental interactions and stellar evolution, fast transients, gravitational waves, high energy physics,

history of relativity, neutron stars, precision tests, quantum gravity, strong fields, and white dwarf; all of them represented by a large number of contributions.The online e-proceedings are published in an open access format.

1978–1989 Heinz-Dietrich Fischer,2020-01-20 No detailed description available for 1978-1989.

Complex Analysis and Dynamical Systems International Conference on Complex Analysis and Dynamical Systems,2004 This book contains contributions from the participants of an International Conference on Complex Analysis and Dynamical Systems. The papers collected here are devoted to various topics in complex analysis and dynamical systems, ranging from properties of holomorphic mappings to attractors in hyperbolic spaces. Overall, these selections provide an overview of activity in analysis at the outset of the twenty-first century. The book is suitable for graduate students and researchers in complex analysis and related problems of dynamics. With this volume, the Israel Mathematical Conference Proceedings are now published as a subseries of the AMS Contemporary Mathematics series.

Inverse Problems and Spectral Theory Hiroshi Isozaki,2004 This volume grew out of a workshop on spectral theory of differential operators and inverse problems held at the Research Institute for Mathematical Sciences (Kyoto University). The gathering of nearly 100 participants at the conference suggests the increasing interest in this field of research. The focus of the book is on spectral theory for differential operators and related inverse problems. It includes selected topics from the following areas: electromagnetism, elasticity, the Schrodinger equation, differential geometry, and numerical analysis. The material is suitable for graduate students and researchers interested in inverse problems and their applications.

Recent Advances in the Theory and Applications of Mass Transport Maria da Conceicao Vieira de Carvalho,José-Francisco Rodrigues,2004 This volume is the result of the Summer School on Mass Transportation Methods in Kinetic Theory and Hydrodynamics held in Ponta Delgada (Azores, Portugal). It contains both survey and research articles on methods of optimal mass transport and applications in physics. Among the many important contributors are L. Caffarelli, M. Loss, and C. Villani. The material is suitable for graduate students and research mathematicians interested in methods of mass transport.

Banach Algebras and Their Applications Anthony To-Ming Lau,Volker Runde,2004 This proceedings volume is from the international conference on Banach algebras and their applications held at the University of Alberta (Edmonton). It contains a collection of refereed research papers and

high-level expository articles that offer a panorama of Banach algebra theory and its manifold applications. Topics in the book range from K-theory to abstract harmonic analysis to operator theory. It is suitable for graduate students and researchers interested in Banach algebras.

Geometry, Spectral Theory, Groups, and Dynamics Robert Brooks,Michael Entov,Yehuda Pinchover,Michah Sageev,2005 This volume contains articles based on talks given at the Robert Brooks Memorial Conference on Geometry and Spectral Theory and the Workshop on Groups, Geometry and Dynamics held at Technion - the Israel Institute of Technology (Haifa). Robert Brooks' (1952-2002) broad range of mathematical interests is represented in the volume, which is devoted to various aspects of global analysis, spectral theory, the theory of Riemann surfaces, Riemannian and discrete geometry, and number theory. A survey of Brooks' work has been written by his close colleague, Peter Buser. Also included in the volume are articles on analytic topics, such as Szegos theorem, and on geometric topics, such as isoperimetric inequalities and symmetries of manifolds. The book is suitable for graduate students and researchers interested in various aspects of geometry and global analysis.

Coding Theory and Quantum Computing David Evans,2005 A conference, Coding Theory and Quantum Computing, was held in Charlottesville, VA, to provide an opportunity for computer scientists, mathematicians, and physicists to interact about subjects of common interest. This proceedings volume grew out of that meeting. It is divided into two parts: Coding Theory and Quantum Computing. In the first part, Harold Ward gives an introduction to coding theory. Other papers survey recent important work, such as coding theory applications of Grobner bases, methods of computing parameters of codes corresponding to algebraic curves, and problems in the theory of designs. The second part of the book covers a wide variety of directions in quantum information with an emphasis on understanding entanglement. The material presented is suitable for graduate students and researchers interested in coding theory and in quantum computing.

Noncompact Problems at the Intersection of Geometry, Analysis, and Topology Noncompact Va Brezis-Browder Conference,Brezis-Browder Conference, Noncompact Variational Problems and General Relativity,Abbas Bahri,Sergiu Klainerman,Michael Vogelius,2004 This proceedings volume contains articles from the conference held at Rutgers University in honor of Haim Brezis and Felix Browder, two mathematicians who have had a profound impact on partial differential equations, functional analysis, and geometry. The material is suitable for graduate students and researchers interested in problems in analysis and differential equations on noncompact manifolds.

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