

# The Mathematics of Democracy, Politics and Manipulation

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# Mathematics And Democracy

**George Szpiro**



## **Mathematics And Democracy:**

*Mathematics and Democracy* Steven J. Brams, 2009-12-02 Voters today often desert a preferred candidate for a more viable second choice to avoid wasting their vote Likewise parties to a dispute often find themselves unable to agree on a fair division of contested goods In *Mathematics and Democracy* Steven Brams a leading authority in the use of mathematics to design decision making processes shows how social choice and game theory could make political and social institutions more democratic Using mathematical analysis he develops rigorous new procedures that enable voters to better express themselves and that allow disputants to divide goods more fairly One of the procedures that Brams proposes is approval voting which allows voters to vote for as many candidates as they like or consider acceptable There is no ranking and the candidate with the most votes wins The voter no longer has to consider whether a vote for a preferred but less popular candidate might be wasted In the same vein Brams puts forward new more equitable procedures for resolving disputes over divisible and indivisible goods

**Making Democracy Count** Ismar Volić, 2024-04-02 *Making Democracy Count* sheds new light on our electoral systems revealing how a deeper understanding of their mathematics is the key to creating civic infrastructure that works for everyone

*Mathematics and Democracy* Lynn Arthur Steen, 2001 *Mathematics and democracy the case for quantitative literacy*

*Numbers Rule* George Szpiro, 2020-11-03 The author takes the general reader on a tour of the mathematical puzzles and paradoxes inherent in voting systems such as the Alabama Paradox in which an increase in the number of seats in the Congress could actually lead to a reduced number of representatives for a state and the Condorcet Paradox which demonstrates that the winner of elections featuring more than two candidates does not necessarily reflect majority preferences Szpiro takes a roughly chronological approach to the topic traveling from ancient Greece to the present and in addition to offering explanations of the various mathematical conundrums of elections and voting also offers biographical details on the mathematicians and other thinkers who thought about them including Plato Pliny the Younger Pierre Simon Laplace Thomas Jefferson John von Neumann and Kenneth Arrow

**Mathematics and Democracy** Bruno Simeone, Friedrich Pukelsheim, 2007-01-09 In this book different quantitative approaches to the study of electoral systems have been developed game theoretic decision theoretic statistical probabilistic combinatorial geometric and optimization ones All the authors are prominent scholars from these disciplines Quantitative approaches offer a powerful tool to detect inconsistencies or poor performance in actual systems Applications to concrete settings such as EU American Congress regional and committee voting are discussed

**Democracy and Mathematics Education** Kurt Stemhagen, Catherine Henney, 2021-05-06 In *Democracy and Mathematics Education* Kurt Stemhagen and Catherine Henney develop a way of thinking about the nature and purposes of math that is inclusive participatory and thoroughly human They use these ideas to create a school mathematics experience that can enhance students math abilities and democratic potential They locate mathematics origins in human activity and highlight the rich but often overlooked links between mathematical

activity and democratic social practices Democratic mathematics education foregrounds student inquiry and brings to light the moral dimensions of a discipline that has both remarkable utility and inevitable limitations For math educators the book s humanities approach helps to see the subject anew For philosophers it provides an important real world context for wrestling with perennial and timely questions engaging democratic and evolutionary theory to transform school math This alternative approach to mathematics and mathematics education provides a guide for how to use math to make democracy a larger part of school and wider social life 2021 Winner of the AESA Critics Choice Book Award      **Mathematical Theory of**

**Democracy** Andranik Tangian,2013-07-31 The mathematical theory of democracy deals with selection of representatives who make decisions on behalf of the whole society In this book the notion of representativeness is operationalized with the index of popularity the average percentage of the population whose opinion is represented on a number of issues and the index of universality the frequency of cases when the opinion of a majority is represented These indices are applied to evaluate and study the properties of single representatives e g president and representative bodies e g parliament magistrate cabinet jury coalition To bridge representative and direct democracy an election method is proposed that is based not on voting but on indexing candidates with respect to the electorate s political profile In addition societal and non societal applications are considered      **Math in a Democracy** Erin Ash Sullivan,2011 The democratic ideal goes back thousands of

years to the ancient Greeks The founding fathers of the United States adopted a similar system of government In this book you will learn how a democracy works and how citizens keep it strong and healthy You ll also see why math skills are important to that effort      **Mathematics to the Rescue of Democracy** Paolo Serafini,2020-03-02 This book explains in a straightforward way the foundations upon which electoral techniques are based in order to shed new light on what we actually do when we vote The intention is to highlight the fact that no matter how an electoral system has been designed and regardless of the intentions of those who devised the system there will be goals that are impossible to achieve but also opportunities for improving the situation in an informed way While detailed descriptions of electoral systems are not provided many references are made to current or past situations both as examples and to underline particular problems and shortcomings In addition a new voting method that avoids the many paradoxes of voting theory is described in detail While some knowledge of mathematics is required in order to gain the most from the book every effort has been made to ensure that the subject matter is easily accessible for non mathematicians too In short this is a book for anyone who wants to understand the meaning of voting      **Math in a Democracy** Erin Ash Sullivan,2011 Find out about the ways in which a

democracy works by utilizing various math skills to analyze the branches of government and the systems within each branch Set of 6 with Teacher s Guide and Comprehension Question Card      Imagine Math 7 Michele Emmer,Marco Abate,2020-10-07 Imagine mathematics imagine with the help of mathematics imagine new worlds new geometries new forms Imagine building mathematical models that make it possible to manage our world better imagine solving great

problems imagine new problems never before thought of imagine combining music art poetry literature architecture theatre and cinema with mathematics Imagine the unpredictable and sometimes counterintuitive applications of mathematics in all areas of human endeavour This seventh volume starts with a homage to the Italian artist Mimmo Paladino who created exclusively for the Venice Conference 2019 ten original and unique works of art paper dedicated to the themes of the meeting A large section is dedicated to the most recent Fields Medals including a Homage to Maryam Mirzakhani including a presentation of the exhibition on soap bubbles in art and science that took place in 2019 A section is dedicated to cinema and theatre including the performances by Claire Bardainne Adrien Mondot A part of the conference focused on the community of mathematicians their role in literature and even in politics with the extraordinary example of Antanas Mockus Mayor of Bogot Mathematics in the constructions of bridges in particular in Italy in the Sixties was presented by Tullia Iori A very particular contribution on Origami by a mathematician Marco Abate and an artist Alessandro Beber And many other topics As usual the topics are treated in a way that is rigorous but captivating detailed and full of evocations This is an all embracing look at the world of mathematics and culture The world life culture everything has changed in a few weeks with the Coronavirus Culture science are the main ways to safeguard people s physical and social life Trust in humanity s creativity and ability The motto today in Italy is Everything will be fine This work is addressed to all those who have an interest in Mathematics

**Mathematical Theory of Democracy** Andranik Tangian, 2013-09-14 The mathematical theory of democracy deals with selection of representatives who make decisions on behalf of the whole society In this book the notion of representativeness is operationalized with the index of popularity the average percentage of the population whose opinion is represented on a number of issues and the index of universality the frequency of cases when the opinion of a majority is represented These indices are applied to evaluate and study the properties of single representatives e g president and representative bodies e g parliament magistrate cabinet jury coalition To bridge representative and direct democracy an election method is proposed that is based not on voting but on indexing candidates with respect to the electorate s political profile In addition societal and non societal applications are considered **Educational Paths to Mathematics** Uwe Gellert, Joaquim Giménez

Rodríguez, Corinne Hahn, Sonia Kafoussi, 2015-05-18 This book offers fresh insight and understanding of the many ways in which children youth and adults may find their paths to mathematics The chapters of the volume offer and analyse promising new ways into mathematics The focus is on spaces and modalities of learning dialogue and inquiry embodiment and aesthetic experience information and communication technology and on the use of mathematics in public communication The chapters present new mathematical activities and conceptions enriching the repertoire of mathematics education practices Critical commentaries discuss the innovative potential of the new approaches to the teaching and learning of mathematics As a consequence the commentaries point to requirements and open issues in the field of research in mathematics education The volume is remarkably international Teachers and researchers from 14 countries authored 21 chapters and 7 commentaries

The reader is invited to reflect on the particular effect of presenting avenues to mathematics contrived in diverse national settings in which the praxis of mathematics education might look different compared to what happens in the reader's place. The book starts a series of sourcebooks edited by CIEAEM the Commission Internationale pour l'Etude et l'Amélioration de l'Enseignement des Mathématiques International Commission for the Study and Improvement of Mathematics Education

*Math Education for America?* Mark Wolfmeyer, 2013-12-04 Math Education for America analyzes math education policy through the social network of individuals and private and public organizations that influence it in the United States. The effort to standardize a national mathematics curriculum for public schools in the U.S. culminated in 2010 when over 40 states adopted the Common Core State Standards for Mathematics. Rather than looking at the text of specific policy documents, this book complements existing critical reviews of the national math education curriculum by employing a unique social network analysis. Breaking new ground in detailing and theorizing the politics of math education, Wolfmeyer argues that the private interests of this network are closely tied to a web of interrelated developments: human capital education policy debates over traditional and reform pedagogy, the assumed content knowledge deficit of math teachers, and the proliferation of profit-driven educational businesses. By establishing the interconnectedness of these interests with the national math education curriculum, he shows how the purported goals of math education reform are aligned with the prevailing political agendas of this social network rather than the national interest.

**The Contribution of Mathematics to School STEM Education**

Judy Anderson, Katie Makar, 2024-06-10 This book presents contemporary STEM education research conducted by mathematics education researchers and their collaborators which highlights the important and pivotal role of mathematics in school STEM education. It showcases evidence of the types of integrated curriculum approaches to STEM education which highlight mathematics as a key component and where mathematical concepts can be learnt through integrated tasks. These examples challenge the idea that mathematics is just an application or servant to the other STEM subjects and highlight the contribution that mathematics can make to the understanding and practices of the other STEM subjects. This book fills a void in the current research literature on the role of mathematics in STEM education, provides evidence of the possibilities for designing integrated STEM curriculum, and highlights current understandings of the role of mathematics in school STEM education. For researchers, it identifies and elaborates gaps to encourage further exploration in this field.

Mathematics Teaching, Learning, and Liberation in the Lives of Black Children

Danny Bernard Martin, 2010-06-21 With issues of equity at the forefront of mathematics education research and policy, this collection offers authoritative scholarship that sheds light on the ways that young black learners experience mathematics in schools and their communities.

*Handbook of International Research in Mathematics Education*

Lyn D. English, David Kirshner, 2010-04-02 The second edition continues the mission of bringing together important new mathematics education research that makes a difference in both theory and practice. It updates and extends the Handbook's original key themes and issues for international research in mathematics education for

the 21st century namely priorities in international mathematics education research lifelong democratic access to powerful mathematical ideas advances in research methodologies influences of advanced technologies Each of these themes is examined in terms of learners teachers and learning contexts with theory development being an important component of all these aspects This edition also examines other catalysts that have gained increased import in recent years including a stronger focus on the teacher and teacher practice a renewed interest in theory development an increased focus on the mathematics needed in work place settings and a proliferation of research designs and methodologies that have provided unprecedented opportunities for investigating and ultimately improving mathematical teaching and learning This edition includes ten totally new chapters all other chapters are thoroughly revised and updated     Weapons of Math Destruction

Cathy O'Neil, 2017-09-05 NEW YORK TIMES BESTSELLER A former Wall Street quant sounds the alarm on Big Data and the mathematical models that threaten to rip apart our social fabric with a new afterword A manual for the twenty first century citizen relevant and urgent Financial Times NATIONAL BOOK AWARD LONGLIST NAMED ONE OF THE BEST BOOKS OF THE YEAR BY The New York Times Book Review The Boston Globe Wired Fortune Kirkus Reviews The Guardian Nature On Point We live in the age of the algorithm Increasingly the decisions that affect our lives where we go to school whether we can get a job or a loan how much we pay for health insurance are being made not by humans but by machines In theory this should lead to greater fairness Everyone is judged according to the same rules But as mathematician and data scientist Cathy O'Neil reveals the mathematical models being used today are unregulated and uncontestable even when they're wrong Most troubling they reinforce discrimination propping up the lucky punishing the downtrodden and undermining our democracy in the process Welcome to the dark side of Big Data     **Analytical Theory of Democracy** Andranik Tangian, 2020-03-30 This book operationalizes the idea of political representation which is fundamental to modern democracies Both individual representatives and representative bodies are evaluated using the indices of popularity the average percentage of the population whose opinion is represented on topical policy issues and universality the percentage of issues for which the prevailing public opinion is represented Viewed as objective functions these indices can aid in the search for optimal representatives and representative bodies By replacing the consistency analysis of the social choice axioms with the calculation of the best compromises the paradoxes of social choice such as those of Condorcet and Arrow can be overcome These indices also form the core of an alternative election method that is aimed at enhancing policy representation a recent concept of political representation which is not supported by the conventional voting systems shaped during the American and French Revolutions This method is tested in a series of election experiments that focus on implementation details In addition non societal applications such as MCDM finance or traffic control are considered where the objects that reflect the properties or behavior of other objects are regarded as their representatives Given its scope the book will appeal to political scientists economists and operations researchers as well as to politicians interested in improving democratic performance

and electoral system design      Critical Mathematics Education Bülent Avci, 2018-11-01 Drawing on rich ethnographic data Critical Mathematics Education Can Democratic Mathematics Education Survive under Neoliberal Regime responds to ongoing discussions on the standardization in curriculum and reconceptualizes Critical Mathematics Education CME by arguing that despite obstructive implications of market driven changes in education a practice of critical mathematics education to promote critical citizenship could be implemented through open ended projects that resonate with an inquiry based collaborative learning and dialogic pedagogy In doing so neoliberal hegemony in education can be countered The book also identifies certain limitations of critical mathematical education and suggests pedagogic and curricular strategies for critical educators to cope with these obstacles



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