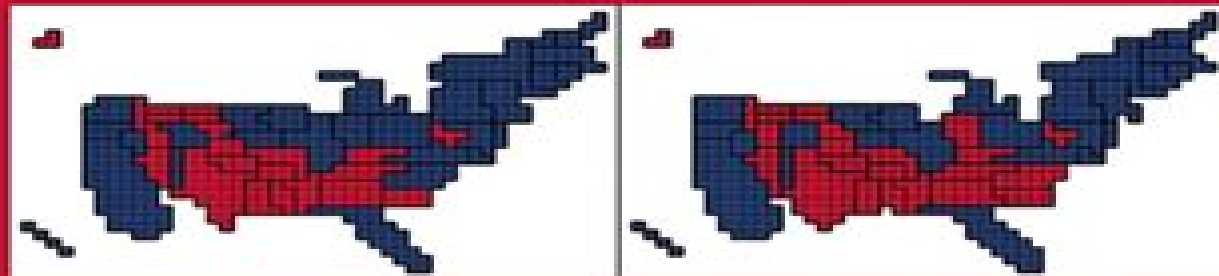


SECOND EDITION

THE MATHEMATICS OF POLITICS



E. Arthur Robinson, Jr.
Daniel H. Ullman



CRC Press

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Mathematics in Politics and Governance

Francisco J. Aragón-Artacho, Miguel A. Goberna, 2024-04-05 This book presents the mathematical tools that politicians use to make rational decisions about health education culture economy finance transportation and national defense for their citizens The selection of topics addressed is based on the experiences of four veteran politicians who have doctorates or master's degrees in mathematics The exposition also considers the mathematical tools used by politicians to capture votes or optimize their impact on the design of electoral districts i.e. gerrymandering without forgetting the mathematics applied to parliamentary activity and political science Aimed at a general educated readership a basic knowledge of mathematics is the only requisite to understanding most of the book Certain sections denoted in the book with a star contain more advanced material and require some knowledge of undergraduate math A later chapter is dedicated to applications and techniques of machine learning and the final chapter discusses a variety of cases where political decisions have affected mathematical development Readers gravitating towards this book are those who are curious about the history of mathematics including optimizers and mathematicians who would like to learn more about the historical roots of their discipline There will also be strong appeal to mathematically oriented economists political scientists and people generally interested in mathematics Mathematics is or it should be an important part of our culture The impact of mathematics is sometimes silent but a powerful one The authors of this book did an incredible work in digging out areas of mathematical reasoning that pervades social and political life Reading this book we will all enrich our vision of mathematics value for society Nuno Crato Professor of Applied

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The Mathematics of Politics E. Arthur Robinson, Daniel H. Ullman, 2016-11-18 It is because mathematics is often misunderstood it is commonly believed it has nothing to say about politics The high school experience with mathematics for so many the lasting impression of the subject suggests that mathematics is the study of numbers operations formulas and manipulations of symbols Those believing this is the extent of mathematics might conclude mathematics has no relevance to politics This book counters this impression The second edition of this popular book focuses on mathematical reasoning about politics In the search for ideal ways to make certain kinds of decisions a lot of wasted effort can be averted if mathematics can determine that finding such an ideal is actually impossible in the first place In the first three parts of this book we address the following three political questions 1 Is there a good way to choose winners of elections 2 Is there a good way to apportion congressional seats 3 Is there a good way to make decisions in situations of conflict and uncertainty In the fourth and final part of this book we examine the Electoral College system that is used in the United States to select a president There we bring together ideas that are introduced in each of the three earlier parts of the book

Toward a Mathematics of Politics Gordon Tullock, 1967

Mathematics in Politics and Governance Francisco J. Aragón, Miguel A. Goberna, 2024 This book presents the mathematical tools that politicians use to make rational decisions about health education culture economy finance transportation and national defense for their citizens The selection of topics addressed is based on the experiences of four veteran politicians who have doctorates or master's degrees in mathematics The exposition also considers the mathematical tools used by politicians to capture votes or optimize their impact on the design of electoral districts i e gerrymandering without forgetting the mathematics applied to parliamentary activity and political science Aimed at a general educated readership a basic knowledge of mathematics is the only requisite to understanding most of the book Certain sections denoted in the book with a star contain more advanced material and require some knowledge of undergraduate math A later chapter is dedicated to applications and techniques of machine learning and the final chapter discusses a variety of cases where political decisions have affected mathematical development Readers gravitating towards this book are those who are curious about the history of mathematics including optimizers and mathematicians who would like to learn more about the historical roots of their discipline There will also be strong appeal to mathematically oriented economists political scientists and people generally interested in mathematics Mathematics is or it should be an important

part of our culture The impact of mathematics is sometimes silent but a powerful one The authors of this book did an incredible work in digging out areas of mathematical reasoning that pervades social and political life Reading this book we will all enrich our vision of mathematics value for society Nuno Crato Professor of Applied Mathematics University of Lisbon former minister of Education and Science of Portugal 2011 2015 This monograph shows in an impressive way that mathematics can be very helpful in making and evaluating political decisions and that it is indispensable in the progressive penetration of all areas of society with scientific methods This also includes politics Not everything in politics can be justified or related to mathematics but politics should not be made in contradiction to mathematical truths For me this is a central message of this publication Johanna Wanka Professor of Applied Mathematics Merseburg University of Applied Sciences former Minister of Education and Research Germany 2013 2018

A Mathematical Look at Politics E. Arthur Robinson Jr., Daniel H. Ullman, 2010-12-09 What Ralph Nader's spoiler role in the 2000 presidential election tells us about the American political system Why Montana went to court to switch the 1990 apportionment to Dean's method How the US tried to use game theory to win the Cold War and why it didn't work When students realize that mathematical thinking can address these sorts of problems

Mathematics and Politics Hayward R. Alker (Jr.), 1971 **Mathematics and Politics** Hayward R. Alker, 1967 Mathematics and Politics Hayward R. Alker (ed.), 1965 *Didactics of Mathematics as a Scientific Discipline* Rolf Biehler, Roland W. Scholz, Rudolf Sträßer, Bernard Winkelmann, 1993-11-30 Didactics of Mathematics as a Scientific Discipline describes the state of the art in a new branch of science Starting from a general perspective on the didactics of mathematics the 30 original contributions to the book drawn from 10 different countries go on to identify certain subdisciplines and suggest an overall structure or topology of the field The book is divided into eight sections 1 Preparing Mathematics for Students 2 Teacher Education and Research on Teaching 3 Interaction in the Classroom 4 Technology and Mathematics Education 5 Psychology of Mathematical Thinking 6 Differential Didactics 7 History and Epistemology of Mathematics and Mathematics Education 8 Cultural Framing of Teaching and Learning Mathematics Didactics of Mathematics as a Scientific Discipline is required reading for all researchers into the didactics of mathematics and contains surveys and a variety of stimulating reflections which make it extremely useful for mathematics educators and teacher trainers interested in the theory of their practice Future and practising teachers of mathematics will find much to interest them in relation to their daily work especially as it relates to the teaching of different age groups and ability ranges The book is also recommended to researchers in neighbouring disciplines such as mathematics itself general education educational psychology and cognitive science

Mathematics and Politics Saunders Mac Lane, 1965 **Platonopolis** Dominic J. O'Meara, 2003-05 Conventional wisdom suggests that the Platonist philosophers of Late Antiquity from Plotinus third century to the sixth century schools in Athens and Alexandria neglected the political dimension of their Platonic heritage in their concentration on an otherworldly life Dominic O'Meara presents a revelatory reappraisal of these thinkers arguing that their

otherworldliness involved rather than excluded political ideas and he proposes for the first time a reconstruction of their political philosophy their conception of the function structure and contents of political science and its relation to political virtue and to the divinization of soul and state Among the topics discussed by O Meara are philosopher kings and queens political goals and levels of reform law constitutions justice and penology the political function of religion and the limits of political science and action He also explores various reactions to these political ideas in the works of Christian and Islamic writers in particular Eusebius Augustine Pseudo Dionysius and al Farabi Filling a major gap in our understanding

Platonopolis will be of substantial interest to scholars and students of ancient philosophy classicists and historians of political thought **A Mathematics Course for Political and Social Research** Will H. Moore, David A. Siegel, 2013-08-11 Political science and sociology increasingly rely on mathematical modeling and sophisticated data analysis and many graduate programs in these fields now require students to take a math camp or a semester long or yearlong course to acquire the necessary skills Available textbooks are written for mathematics or economics majors and fail to convey to students of political science and sociology the reasons for learning often abstract mathematical concepts A Mathematics Course for Political and Social Research fills this gap providing both a primer for math novices in the social sciences and a handy reference for seasoned researchers The book begins with the fundamental building blocks of mathematics and basic algebra then goes on to cover essential subjects such as calculus in one and more than one variable including optimization constrained optimization and implicit functions linear algebra including Markov chains and eigenvectors and probability It describes the intermediate steps most other textbooks leave out features numerous exercises throughout and grounds all concepts by illustrating their use and importance in political science and sociology Uniquely designed and ideal for students and researchers in political science and sociology Uses practical examples from political science and sociology Features Why Do I Care sections that explain why concepts are useful Includes numerous exercises Complete online solutions manual available only to professors email david.siegel@duke.edu subject line Solution Set Selected solutions available online to students [Numbers Rule](#) George Szpiro, 2010-03-15 A lively history of the peculiar math of voting Since the very birth of

democracy in ancient Greece the simple act of voting has given rise to mathematical paradoxes that have puzzled some of the greatest philosophers statesmen and mathematicians Numbers Rule traces the epic quest by these thinkers to create a more perfect democracy and adapt to the ever changing demands that each new generation places on our democratic institutions In a sweeping narrative that combines history biography and mathematics George Szpiro details the fascinating lives and big ideas of great minds such as Plato Pliny the Younger Ramon Llull Pierre Simon Laplace Thomas Jefferson Alexander Hamilton John von Neumann and Kenneth Arrow among many others Each chapter in this riveting book tells the story of one or more of these visionaries and the problem they sought to overcome like the Marquis de Condorcet the eighteenth century French nobleman who demonstrated that a majority vote in an election might not necessarily result in a clear winner Szpiro takes

readers from ancient Greece and Rome to medieval Europe from the founding of the American republic and the French Revolution to today's high stakes elective politics He explains how mathematical paradoxes and enigmas can crop up in virtually any voting arena from electing a class president a pope or prime minister to the apportionment of seats in Congress

Numbers Rule describes the trials and triumphs of the thinkers down through the ages who have dared the odds in pursuit of a just and equitable democracy *Proceedings of the Fourth International Congress on Mathematical Education* M. Zweng, Green, Kilpatrick, Pollack, Suydam, 2012-12-06 Henry O Pollak Chairman of the International Program Committee Bell Laboratories Murray Hill New Jersey USA The Fourth International Congress on Mathematics Education was held in Berkeley California USA August 10-16 1980 Previous Congresses were held in Lyons in 1969 Exeter in 1972 and Karlsruhe in 1976 Attendance at Berkeley was about 1800 full and 500 associate members from about 90 countries at least half of these come from outside of North America About 450 persons participated in the program either as speakers or as presiders approximately 40 percent of these came from the U S or Canada There were four plenary addresses they were delivered by Hans Freudenthal on major problems of mathematics education Hermina Sinclair on the relationship between the learning of language and of mathematics Seymour Papert on the computer as carrier of mathematical culture and Hua Loo Keng on popularising and applying mathematical methods George Polya was the honorary president of the Congress illness prevented his planned attendance but he sent a brief presentation entitled Mathematics Improves the Mind There was a full program of speakers panelists debates miniconferences and meetings of working and study groups In addition 18 major projects from around the world were invited to make presentations and various groups representing special areas of concern had the opportunity to meet and to plan their future activities *Dialogue and Learning in Mathematics Education* Helle Alrø, Ole Skovsmose, 2002 Dialogue and Learning in Mathematics Education is concerned with communication in mathematics classrooms In a series of empirical studies of project work we follow students inquiry cooperation as well as students obstructions to inquiry cooperation Both are considered important for a theory of learning mathematics Special attention is paid to the notions of dialogue and critique A central idea is that dialogue supports critical learning of mathematics The link between dialogue and critique is developed further by including the notions of intention and reflection Thus a theory of learning mathematics is developed which is resonant with critical mathematics education **Political Psychology** David Patrick Houghton, 2014-08-25 What shapes political behavior more the situations in which individuals find themselves or the internal psychological makeup beliefs values and so on of those individuals This is perhaps the leading division within the psychological study of politics today Political Psychology Situations Individuals and Cases 2nd edition provides a concise readable and conceptually organized introduction to the topic of political psychology by examining this very question Using this situationism dispositionism framework which roughly parallels the concerns of social and cognitive psychology this book focuses on such key explanatory mechanisms as behaviorism obedience personality groupthink cognition affect emotion and

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The Saturday Review of Politics, Literature, Science and Art ,1906 Mathematical Thinking about Politics George Robert Boynton,1980 **Annual Register of the United States Naval Academy** United States Naval Academy,1967

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