

1. Record Nr.	UNINA9910781072403321
Autore	Brams Steven J.
Titolo	Mathematics and Democracy : Designing Better Voting and Fair-Division Procedures // Steven J. Brams
Pubbl/distr/stampa	Princeton, NJ : , : Princeton University Press, , [2009] ©2008
ISBN	1-282-53160-3 9786612531606 1-4008-3559-3
Edizione	[Course Book]
Descrizione fisica	1 online resource (390 p.)
Classificazione	89.57
Disciplina	324.601513
Soggetti	Finance, Public - Mathematical models Elections - Mathematical models Voting - Mathematical models Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references (p. [343]-362) and index.
Nota di contenuto	Frontmatter -- Contents -- Preface -- Part 1. Voting Procedures -- 1 Electing a Single Winner: Approval Voting in Practice -- 2 Electing a Single Winner: Approval Voting in Theory -- 3 Electing a Single Winner: Combining Approval and Preference -- 4 Electing Multiple Winners: Constrained Approval Voting -- 5 Electing Multiple Winners: The Minimax Procedure -- 6 Electing Multiple Winners: Minimizing Misrepresentation -- 7 Selecting Winners in Multiple Elections -- Part 2. Fair- Division Procedures -- 8 Selecting a Governing Coalition in a Parliament -- 9 Allocating Cabinet Ministries in a Parliament -- 10 Allocating Indivisible Goods: Help the Worst- Off or Avoid Envy? -- 11 Allocating a Single Homogeneous Divisible Good: Divide- the- Dollar -- 12 Allocating Multiple Homogeneous Divisible Goods: Adjusted Winner -- 13 Allocating a Single Heterogeneous Good: Cutting a Cake -- 14 Allocating Divisible and Indivisible Goods -- 15 Summary and Conclusions -- Glossary -- References -- Index
Sommario/riassunto	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.
