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# Collective Decisions and Voting

## The Potential for Public Choice

Nicolaus Tideman, Virginia Polytechnic Institute and State University

*"For people who do not have much background in public choice, this will be an excellent introduction. People who already are familiar with public choice will nevertheless find much in this book which is new to them. It is thus useful both for beginners and for serious students."*

—Gordon Tullock, George Mason University

When one thinks about how collective decisions are made, voting is the method that comes naturally to mind. But other methods such as random process and consensus are also used. This book explores just what a collective decision is, classifies the methods of making collective decisions, and identifies the advantages and disadvantages of each method. Classification is the prelude to evaluation. What are the characteristics of a method of making collective decisions, the book asks, that permit us to describe a collective decision as good?

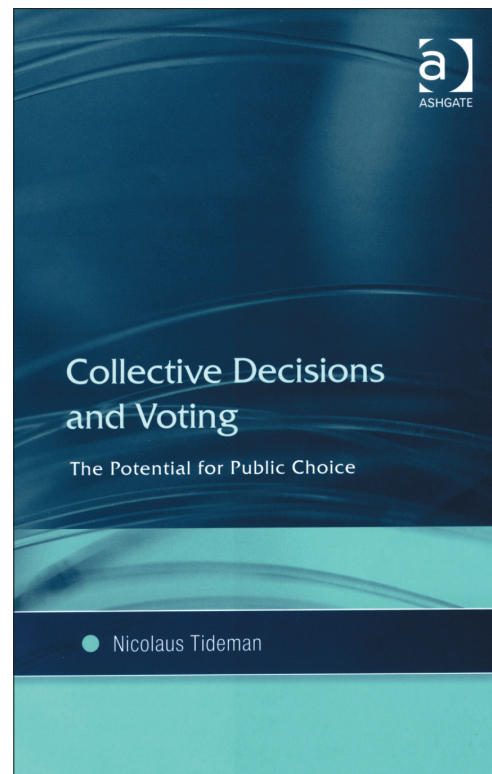
The second part of the book is detailed exploration of voting: the dimensions in which voting situations differ, the origins and logic of majority rule, the frequency of cycles in voting, the Arrow and Gibbard-Satterthwaite theorems, criteria for ways of cutting through cycles and the application of these criteria to a variety of rules, voting over continuums, proportional representation, and voting rules that take account of intensities of preferences. Relatively unknown methods of voting give voting a much greater potential than is generally recognized.

*Collective Decisions and Voting* is essential reading for everyone with an interest in voting theory and how public choices might be made.

December 2006    360 pages  
Hardback        0 7546 4717 X / 978 0 7546 4717 1    \$114.95

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**Contents:** Preface; PART 1: COLLECTIVE DECISIONS: Defining a collective decision; A taxonomy of collective decision procedures; Economic criteria for evaluating collective decisions; General criteria for evaluating collective decision procedures; Relative advantages of modes of making collective decisions; What is a good collective decision? PART 2: VOTING: An overview of voting; Majority rule and its weighted analog; Voting cycles; The Arrow Theorem; Strategic voting and the Gibbard-Satterthwaite Theorem; Criteria for evaluating ranking-based vote-processing rules; Vote processing rules for selecting one option from many when votes have predetermined weights: alternatives to plurality; Vote processing rules for selecting one option from a continuum of one or more dimensions when votes have predetermined weights; Vote processing rules for selecting more than one candidate when votes have predetermined weights: proportional representation; Vote processing rules with endogenous weights for self-interested advocates: revealing intensities of preferences; Lessons from the excursion; Bibliography; Index.



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