



Mathematics and Politics: Strategy, Voting, Power, and Proof

Alan D. Taylor, Allison M. Pacelli

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As a text for an undergraduate mathematics course for nonmajors, *Mathematics and Politics* requires no prerequisites in either area while the underlying philosophy involves minimizing algebraic computations and focusing instead on some conceptual aspects of mathematics in the context of important real-world questions in political science.

Five major topics are covered including a model of escalation, game theoretic models of international conflict, yes-no voting systems, political power, and social choice. Each topic is discussed in an introductory chapter and revisited in more depth in a later chapter. This new edition has added co-author, Allison Pacelli, and two new chapters on "Fairness" and "More Fairness." The examples and the exercises have been updated and enhanced throughout.

Reviews from first edition:

This book is well written and has much math of interest. While it is pitched at a non-math audience there is material here that will be new and interesting to the readers...

-Sigact News

For mathematicians, Taylor's book shows how the social sciences make use of mathematical thinking, in the form of axiomatic systems, and offers a chance to teach this kind of thinking to our students.

- The College Mathematics Journal

The writing is crisp and the sense of excitement about learning mathematics is seductive. The political conflict examples are well thought out and clear.

-Michael C. Munger

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