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Nota di contenuto	Part I. Description of Delegate Allocation Rules -- Chapter 1. Apportionment in the US Presidential Primaries -- Chapter 2. The Democratic Party Primary -- Chapter 3. The Iowa and Nevada Democratic Caucuses -- Chapter 4. The Republican Party Primary -- Part II. Analysis of Delegate Allocation Rules -- Chapter 5. Properties of the Apportionment Methods used in the Primaries -- Chapter 6. Paradoxes -- Chapter 7. Exploring Alternative Ways to Allocate Delegates.
Sommario/riassunto	This book provides a comprehensive mathematical description and analysis of the delegate allocation processes in the US Democratic and Republican presidential primaries, focusing on the role of

apportionment methods and the effect of thresholds—the minimum levels of support required to receive delegates. The analysis involves a variety of techniques, including theoretical arguments, simplicial geometry, Monte Carlo simulation, and examination of presidential primary data from 2004 to 2020. The book is divided into two parts: Part I defines the classical apportionment problem and explains how the implementation and goals of delegate apportionment differ from those of apportionment for state representation in the US House of Representatives and for party representation in legislatures based on proportional representation. The authors then describe how delegates are assigned to states and congressional districts and formally define the delegate apportionment methods used in each state by the two major parties to allocate delegates to presidential candidates. Part II analyzes and compares the apportionment methods introduced in Part I based on their level of bias and adherence to various notions of proportionality. It explores how often the methods satisfy the quota condition and quantifies their biases in favor or against the strongest and weakest candidates. Because the methods are quota-based, they are susceptible to classical paradoxes like the Alabama and population paradoxes. They also suffer from other paradoxes that are more relevant in the context of delegate apportionment such as the elimination and aggregation paradoxes. The book evaluates the extent to which each method is susceptible to each paradox. Finally, it discusses the appointment of delegates based on divisor methods and notions of regressive proportionality. This book appeals to scholars and students interested in mathematical economics and political science, with an emphasis on apportionment and social choice theory.
