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Descrizione fisica	1 online resource (320 pages)
Collana	Theory and Decision Library C, Game Theory, Social Choice, Decision Theory, and Optimization, , 0924-6126 ; ; 48
Disciplina	519.3
Soggetti	Game theory Industrial organization Welfare economics Environmental sciences Computer science—Mathematics Game Theory Game Theory, Economics, Social and Behav. Sciences Industrial Organization Social Choice/Welfare Economics/Public Choice/Political Economy Math. Appl. in Environmental Science Math Applications in Computer Science
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Foundations: Purpose of the Book -- Terminology and Notation -- Preliminaries -- Stability: Dominance -- The Core -- Implementation of the Core -- Other Stability Concepts -- Fairness: Axioms -- The Shapley-value -- Other Values -- Applications: Oligopoly Models -- Environmental Applications -- Femtocell Networks -- Further Applications.
Sommario/riassunto	This book presents a systematic overview on partition function form games: a game form in cooperative game theory to integrate externalities for various applications. Cooperative game theory has been immensely useful to study a wide range of issues, but the standard approaches ignore the side effects of cooperation. Recently

interest shifted to problems where externalities play the main roles such as models of cooperation in market competition or the shared use of public resources. Such problems require richer models that can explicitly evaluate the side-effects of cooperation. In partition function form games the value of cooperation depends on the outsiders' actions. A recent surge of interest driven by applications has made results very fragmented. This book offers an accessible, yet comprehensive and systematic study of properties, solutions and applications of partition function games surveying both theoretical results and their applications. It assembles a survey of existing research and smaller original results as well as original interpretations and comparisons. The book is self-contained and accessible for readers with little or no knowledge of cooperative game theory.
