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   Sommario/riassunto   This book presents advances in alternative swarm development that
                        have proved to be effective in several complex problems. Swarm
                        intelligence (SI) is a problem-solving methodology that results from the
                        cooperation between a set of agents with similar characteristics. The
                        study of biological entities, such as animals and insects, manifesting
                        social behavior has resulted in several computational models of swarm
                        intelligence. While there are numerous books addressing the most
                        widely known swarm methods, namely ant colony algorithms and
                        particle swarm optimization, those discussing new alternative
                        approaches are rare. The focus on developments based on the simple
                        modification of popular swarm methods overlooks the opportunity to
                        discover new techniques and procedures that can be useful in solving
                        problems formulated by the academic and industrial communities.
                        Presenting various novel swarm methods and their practical
                        applications, the book helps researchers, lecturers, engineers and
                        practitioners solve their own optimization problems.