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Nota di contenuto	Front matter Contents Acknowledgments CHAPTER ONE: Introduction CHAPTER TWO. The Soil Food Web CHAPTER THREE. Plant Species Control of Soil Biota and Processes CHAPTER FOUR. Belowground Consequences of Aboveground Food Web Interactions CHAPTER FIVE. Completing the Circle CHAPTER SIX. The Regulation and Function of Biological Diversity CHAPTER SEVEN. Global Change Phenomena in an Aboveground-Belowground Context CHAPTER EIGHT. Underlying Themes References Index
Sommario/riassunto	Most of the earth's terrestrial species live in the soil. These organisms, which include many thousands of species of fungi and nematodes, shape aboveground plant and animal life as well as our climate and atmosphere. Indeed, all terrestrial ecosystems consist of interdependent aboveground and belowground compartments. Despite this, aboveground and belowground ecology have been conducted largely in isolation. This book represents the first major synthesis to focus explicitly on the connections between aboveground and belowground subsystemsand their importance for community structure and ecosystem functioning. David Wardle integrates a vast body of literature from numerous fieldsincluding population ecology, ecosystem ecology, ecophysiology, ecological theory, soil science, and global-change biologyto explain the key conceptual issues relating

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to how aboveground and belowground communities affect one another and the processes that each component carries out. He then applies these concepts to a host of critical questions, including the regulation and function of biodiversity as well as the consequences of humaninduced global change in the form of biological invasions, extinctions, atmospheric carbon-dioxide enrichment, nitrogen deposition, land-use change, and global warming. Through ambitious theoretical synthesis and a tremendous range of examples, Wardle shows that the key biotic drivers of community and ecosystem properties involve linkages between aboveground and belowground food webs, biotic interaction, the spatial and temporal dynamics of component organisms, and, ultimately, the ecophysiological traits of those organisms that emerge as ecological drivers. His conclusions will propel theoretical and empirical work throughout ecology.