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	Nota di contenuto	Part I. Studying Vibrational Behavior: Ideas, Concepts and History -- Chapter 1. Quo Vadis, Biotremology? -- Chapter 2. Sound Production in True Bugs from the Families Acanthosomatidae and Pentatomidae (1958) -- Part II. The State of the Field: Concepts and Frontiers in Vibrational Behavior -- Chapter 3. Vibrational Behaviour and Communication in the New Zealand Weta (Orthoptera: Anostostomatidae) -- Chapter 4. Energetic Costs of Vibrational Signalling -- Chapter 5. The Hawaiian Planthoppers (Hemiptera: Auchenorrhyncha: Fulgoromorpha) and Their Courtship Songs -- Part III. Practical Issues in Studying Vibrational Behavior -- Chapter 6. Substrate-Borne Vibrational Noise in the Anthropocene: From Land to Sea -- Chapter 7. Research Approaches in Mechanosensory-Cued

Hatching and the Iterative Development of Playback Methods for Red-Eyed Treefrog Embryos -- Chapter 8. Inexpensive Methods for Detecting and Reproducing Substrate-Borne Vibrations: Advantages and Llimitations -- Part IV. Vibrational Behavior in Less Explored Contexts -- Chapter 9. Sexual Selection in the Red Mason Bee: Vibrations, Population Divergence and the Impact of Temperature -- Chapter 10. Vibrational Signals in Multimodal Courtship Displays of Birds -- Chapter 11. Blooms and Buzzing Bees: Bridging Buzz Pollination and Biotremology -- Chapter 12. Mechanosensory Behaviour and Biotremology in Nematodes -- Chapter 13. Speleotremology: Ecology and Evolution of Vibrational Communication in Cavernicolous Insects -- Part V. Vibrational Behavior in Some Well-Studied Taxa -- Chapter 14. Ophidian Biotremology -- Chapter 15. Evolution of Communication Systems Underground in a Blind Mammal, Spalax -- Chapter 16. Vibrational Behavior in Honeybees -- Chapter 17. Vibrational Communication Outside and Inside the Nest in Leaf-Cutting Ants -- Chapter 18. Biotremology of Social Wasps: The Next Step to Understand Wasps' Social Life -- Chapter 19. Vibratory Sensing and Communication in Caterpillars -- Part VI. Applied Biotremology -- Chapter 20. Exploitation of Vibration Sensing for Pest Management in Longicorn Beetles -- Chapter 21. Subterranean Arthropod Biotremology: Ecological and Economic Contexts -- Chapter 22. Vibrational Communication in Psyllids -- Chapter 23. Potential of Biotremology for Monitoring and Control of Stink Bugs.

Sommario/riassunto

Biotremology is a new and emerging discipline in biological sciences that covers all aspects of behavior associated with substrate-borne mechanical waves. This volume provides state-of-the-art reviews and technical contributions from leading experts and invited younger researchers on topics from signal production and transmission to perception in its ecological context. Reviews about the knowledge of well-studied groups are complemented with perspectives on the study of less-explored groups or contexts. Special attention is given to practical issues in measuring substrate-borne vibrations as well as to applied biotremology. The book appeals to all those interested in communication and vibrational behavior.