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Comparative Bioacoustics: An Overview

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About the eBook

This book is the definitive introductory guide to the field of acoustics in animal and human biology. The simple yet comprehensive treatment of topics in the book meet the requirements of both novice and advanced researchers preparing for a scholarly career in bioacoustics.

Contents

- Sound and Sound Sources
- Propagation of Sound
- An Introduction to Laryngeal Biomechanics
- Sound Production and Modification in Birds – Mechanisms, Methodology and Open Questions
- Source Filter Theory
- Acoustic Preference Methods: Assessing Mates
- Filtering in Bioacoustics
- Nonlinear Dynamics and Temporal Analysis
- Hidden Markov Model Signal Classification
- Classifying Animal Sounds with Neural Networks
- Sound Archives and Media Specimens in the 21st Century

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