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Nota di contenuto	Acoustic Coding Strategies Through the Lens of the Mathematical Theory of Communication -- To Shout or to Whisper? Strategies for Encoding Public and Private Information in Sound Signals -- The Bird Dawn Chorus Revisited -- Coding Human Languages for Long-Range Communication in Natural Ecological Environments: Shouting, Whistling, and Drumming -- Coding of Static Information in Terrestrial Mammal Vocal Signals -- Coding for 'Dynamic' Information: Vocal

Expression of Emotional Arousal and Valence in Non-human Animals
-- Seasonal Hormone Fluctuations and Song Structure of Birds -- From Vocal to Neural Encoding: A Transversal Investigation of Information Transmission at Long Distance in Birds -- Mother–Offspring Vocal Recognition and Social System in Pinnipeds -- Acoustic Coding of Information in a Complex Social Network: Identity Signaling in Northern Elephant Seals -- How Songbird Females Sample Male Song: Communication Networks and Mate Choice -- Interspecific Communication: Gaining Information from Heterospecific Alarm Calls -- A Framework to Understand Interspecific Multimodal Signaling Systems.

Sommario/riassunto

Information is a core concept in animal communication: individuals routinely produce, acquire, process and store information, which provides the basis for their social life. This book focuses on how animal acoustic signals code information and how this coding can be shaped by various environmental and social constraints. Taking birds and mammals, including humans, as models, the authors explore such topics as communication strategies for “public” and “private” signaling, static and dynamic signaling, the diversity of coded information and the way information is decoded by the receiver. The book appeals to a wide audience, ranging from bioacousticians, ethologists and ecologists to evolutionary biologists. Intended for students and researchers alike, it promotes the idea that Shannon and Weaver's Mathematical Theory of Communication still represents a strong framework for understanding all aspects of the communication process, including its dynamic dimensions.
