



G. B. Mindlin
R. Laje

The Physics of Birdsong



Springer

BIOLOGICAL AND MEDICAL PHYSICS
BIOMEDICAL ENGINEERING

Physics Of Birdsong

Shasha Hu



Physics Of Birdsong:

The Physics of Birdsong Gabriel B. Mindlin, Rodrigo Laje, 2005-12-01 In recent years birdsong has developed into an extremely interesting problem for researchers in several branches of the scientific community The reason is that of the approximately 10 000 species of birds known to exist some 4000 share with humans and just a few other species in the animal kingdom a remarkable feature their acquisition of vocalization requires a certain degree of exposure to a tutor Between the complex neural architecture involved in the process and the song itself stands a delicate apparatus that the bird must control with incredible precision This book deals with the physical mechanisms at work in the production of birdsong the acoustic effects that the avian vocal organ is capable of generating and the nature of the neural instructions needed to drive it The book provides fascinating reading for physicists biologists and general readers alike **Birdsong, Speech, and**

Language Johan J. Bolhuis, Martin Everaert, 2013 Scholars have long been captivated by the parallels between birdsong and human speech and language In this book leading scholars draw on the latest research to explore what birdsong can tell us about the biology of human speech and language and the consequences for evolutionary biology They examine the cognitive and neural similarities between birdsong learning and speech and language acquisition considering vocal imitation auditory learning an early vocalization phase babbling the structural properties of birdsong and human language and the striking similarities between the neural organization of learning and vocal production in birdsong and human speech After outlining the basic issues involved in the study of both language and evolution the contributors compare birdsong and language in terms of acquisition recursion and core structural properties and then examine the neurobiology of song and speech genomic factors and the emergence and evolution of language **Spell-Out and the Minimalist Program** Juan Uriagereka, 2012 In

this book Juan Uriagereka explores important consequences of the multiple spell out hypothesis and of the linked notion of cyclicity He combines the latest thinking in linguistics with perspectives drawn from physics biology and animal behavior

Deutsche Nationalbibliografie ,2005-07 *Bioacoustics* ,2006 **Journal of the Royal Society, Interface** ,2008

Mozart's Starling Lyanda Lynn Haupt, 2017-06-15 On May 27th 1784 Wolfgang Amadeus Mozart met a flirtatious little starling who sang an improved version of the theme from his Piano Concerto Number 17 in G to him Knowing a kindred spirit when he met one Mozart wrote That was wonderful in his journal and took the bird home to be his pet For three years Mozart and his family enjoyed the uniquely delightful company of the starling until one April morning when the bird passed away In 2013 Lyanda Lynn Haupt author of *Crow Planet* rescued her own starling Carmen who has become a part of her family In *Mozart's Starling* Haupt explores the unlikely bond between one of history's most controversial characters and one of history's most notoriously disliked birds Part natural history part story *Mozart's Starling* will delight readers as they learn about language music and the secret world of starlings **Journal of Experimental Biology** ,2008 *Never Say Calf*

Rope Jack Zorn, 2009-12 If you liked Mark Twain's adventures of Tom Sawyer and Huck Finn you'll love the humorous

oftentimes exciting escapades of Jack Zorn and his two younger brothers growing up on their grandfather's farm in rural Thomaston Georgia. It was during the depression years of the 1930's. Money was scarce. The Zorn boys were poor but they didn't know it. Besides, everyone else was too. Later, the author opens up his heart and candidly reveals a close relationship to a father plagued all of his life by an addiction to alcohol and a grandson who provided joy, inspiration, and humor.

The Journal of Experimental Biology, 2009 *U.S. Directory of Marine Scientists*, 1975 National Research Council (U.S.). Ocean Science Committee, National Oceanographic Data Center (U.S.), 1975 **Advances in Physiology Research and Application: 2011 Edition**, 2012-01-09

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U.S. Directory of Marine Scientists, 1975 *Knowledge*, 1896 *Science Year World Book*, 1981 **Journal of Comparative Physiology**, 2002 *Deutsche Nationalbibliografie* Die deutsche Nationalbibliothek, 2005 **Science Year**, 1965 **Bird Song** Aretas Andrews Saunders, 1929 **Bird Song: Acoustics and Physiology** Crawford H. Greenewalt, 1968

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