

Alexander



Principles of Animal Locomotion

R. McNeill Alexander

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Principles Of Animal Locomotion

Andrew A. Biewener



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Animal Locomotion Malcolm S. Gordon, Reinhard Blickhan, John O. Dabiri, John J. Videler, 2017-05-25 *Animal Locomotion Physical Principles and Adaptations* is a professional level state of the art review and reference summarizing the current understanding of macroscopic metazoan animal movement The comparative biophysics biomechanics and bioengineering of swimming flying and terrestrial locomotion are placed in contemporary frameworks of biodiversity evolutionary process and modern research methods including mathematical analysis The intended primary audience is advanced level students and researchers primarily interested in and trained in mathematics physical sciences and engineering Although not encyclopedic in its coverage anyone interested in organismal biology functional morphology organ systems and ecological physiology physiological ecology molecular biology molecular genetics and systems biology should find this book useful

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Computational Modeling and Simulation of Quadrupedal Animal Movement Gina Bertocci, John R. Hutchinson, Denis J. Marcellin-Little, Marcus G. Pandy, 2022-08-17

Radical-mechanics of Animal Locomotion William Pratt Wainwright, 1880

Animal Locomotion Andrew A. Biewener, 2003-06-19 Written by a distinguished US physiologist this book examines how

animals move comparing running swimming and flying In doing so it examines the common principles of design and movement that animals have evolved to move through very different physical environments The underlying physiological and biomechanical properties of muscles skeletons and nervous systems are linked to the mechanisms and control of movement At the same time the book articulates the captivating grace speed and power of animal movement **Animal Locomotion** Malcolm S. Gordon, Reinhard Blickhan, John O. Dabiri, John J. Videler, 2017-05-25 *Animal Locomotion* Physical Principles and Adaptations is a professional level state of the art review and reference summarizing the current understanding of macroscopic metazoan animal movement The comparative biophysics biomechanics and bioengineering of swimming flying and terrestrial locomotion are placed in contemporary frameworks of biodiversity evolutionary process and modern research methods including mathematical analysis The intended primary audience is advanced level students and researchers primarily interested in and trained in mathematics physical sciences and engineering Although not encyclopedic in its coverage anyone interested in organismal biology functional morphology organ systems and ecological physiology physiological ecology molecular biology molecular genetics and systems biology should find this book useful Principles of Animal Mechanics Samuel Haughton, 2023-07-18 This book explores the mechanics of animal movement and the physics behind it With a focus on large animals like horses and elephants Samuel Haughton breaks down the complex movements and forces involved in locomotion This book is a must read for anyone interested in animal physiology and biomechanics This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it This work is in the public domain in the United States of America and possibly other nations Within the United States you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work Scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public We appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant *Animal Locomotion* Andrew Biewener, Sheila Patek, 2018-03-23 Animals have evolved remarkable biomechanical and physiological systems that enable their rich repertoire of motion *Animal Locomotion* offers a fundamental understanding of animal movement through a broad comparative and integrative approach including basic mathematics and physics examination of new and enduring literature consideration of classic and cutting edge methods and a strong emphasis on the core concepts that consistently ground the dizzying array of animal movements Across scales and environments this book integrates the biomechanics of animal movement with the physiology of animal energetics and the neural control of locomotion This second edition has been thoroughly revised incorporating new content on non vertebrate animal locomotor systems studies of animal locomotion that have inspired robotic designs and a new chapter on the use of evolutionary approaches to locomotor mechanisms and performance

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