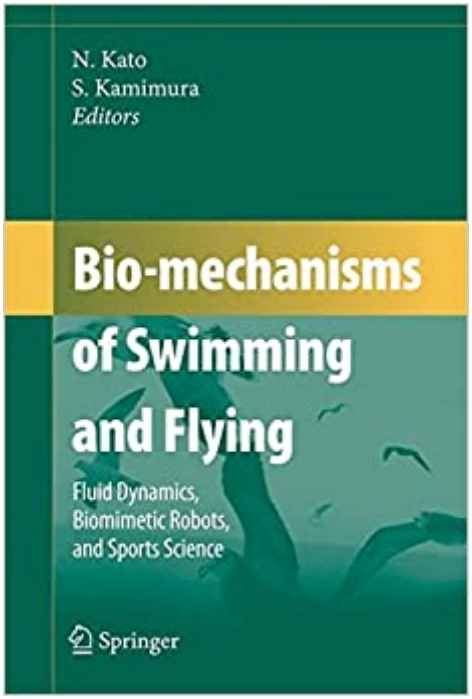
Bio-mechanisms Of Swimming And Flying: Fluid Dynamics, Biomimetic Robots, And Sports Science



Synopsis

This book covers a wide range of animals from flagellated microorganisms to marine mammals. It follows "Bio-mechanisms of Animals in Swimming and Flying" published in 2004 including 11 chapters. This time, the book includes 31 chapters on the latest researches into natural autonomous systems and locomotion in both flying and swimming organisms. The area of sports science such as analysis and simulation of human swimming is newly added. The computational frameworks for the modeling, simulation and optimization of animals in swimming and flying demonstrate an important role in the progress of interdisciplinary work in the fields of biology and engineering.

Book Information

Hardcover: 403 pages

Publisher: Springer; 2008 edition (November 19, 2007)

Language: English

ISBN-10: 4431733795

ISBN-13: 978-4431733799

Product Dimensions: 6.1 x 0.8 x 9.3 inches

Shipping Weight: 1.6 pounds (View shipping rates and policies)

Average Customer Review: 4.0 out of 5 stars 1 customer review

Best Sellers Rank: #14,369,503 in Books (See Top 100 in Books) #65 inÂ Books > Sports & Outdoors > Miscellaneous > Sports Science #2530 inÂ Books > Textbooks > Medicine & Health Sciences > Medicine > Biotechnology #3496 inÂ Books > Computers & Technology > Computer Science > Bioinformatics

Customer Reviews

Very interesting collection of papers although isolated to one small group of scientists. A lot of this could be tracked down through the literature.

(Bio-Bibliographies in the Performing Arts) Ronald Colman: A Bio-Bibliography (Bio-Bibliographies in the Performing Arts) Crockett: A Bio-Bibliography (Popular Culture Bio-Bibliographies) Algernon Blackwood: A Bio-Bibliography (Bio-Bibliographies in World Literature) The Swimming Psychology Workbook: How to Use Advanced Sports Psychology to Succeed in the Swimming Pool Skateboarding: How It Works (Sports Illustrated Kids: the Science of Sports) (The Science of Sports (Sports Illustrated for Kids)) Football: How It Works (Sports Illustrated Kids: the Science of Sports) (The Science of Sports (Sports Illustrated for Kids)) Hockey: How It Works (Sports Illustrated Kids: the Science of Sports) (The Science of Sports (Sports Illustrated for Kids)) The Ultimate Guide to Weight Training for Swimming (The Ultimate Guide to Weight Training for Sports, 25) (The Ultimate Guide to Weight Training for Sports, ... Guide to Weight Training for Sports, 25) Paper Robots: 25 Fantastic Robots You Can Build Yourself! Robots, Robots Everywhere! (Little Golden Book) House of Robots: Robots Go Wild! House of Robots (House of Robots Series Book 1) ROBOTS, ROBOTS EVERY Swimming: Swimming Made Easy: Beginner and Expert Strategies for Becoming a Better Swimmer