



## Bio-mechanisms of Swimming and Flying: Fluid Dynamics, Biomimetic Robots, and Sports Science

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# **Bio-mechanisms of Swimming and Flying: Fluid Dynamics, Biomimetic Robots, and Sports Science**

## **Bio-mechanisms of Swimming and Flying: Fluid Dynamics, Biomimetic Robots, and Sports Science**

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.



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