Fish Physiology: Fish Biomechanics, Vol 23

Description: The first in two decades to exclusively integrate physiological and biomechanical studies of fish locomotion, feeding and breathing, making this book both comprehensive and unique. This book reviews and integrates recent developments in research on fish biomechanics, with particular emphasis on experimental results derived from the application of innovative new technologies to this area of research, such as high-speed video, sonomicrometry and digital imaging of flow fields. The collective chapters, written by leaders in the field, provide a multidisciplinary view and synthesis of the latest information on feeding mechanics, breathing mechanics, sensory systems, stability and maneuverability, skeletal systems, muscle structure and performance, and hydrodynamics of steady and burst swimming, including riverine passage of migratory species.

Book presents concepts in biomechanics, a rapidly expanding area of research
First volume in over twenty years on this subject
Multi-author volume with contributions by leaders in the field
Clear explanations of basic biomechanical principles used in fish research
Well illustrated with summary figures and explanatory color diagrams

Contents:

Chapter 1. Mechanics of Respiratory Pumps
Chapter 2. Skull Biomechanics and Suction Feeding in Fishes
Chapter 3. Functional Morphology of the Pharyngeal Jaw Apparatus
Chapter 4. The Hydrodynamic and Structural Mechanics of the Lateral Line System
Chapter 5. Skin and Bones, Sinew and Gristle: The Mechanical Behavior of Fish Skeletal Tissues
Chapter 6. Functional Properties of Skeletal Muscle
Chapter 7. Structure, Kinematics and Muscle Dynamics in Undulatory Swimming
Chapter 8. Stability and Maneuverability
Chapter 9. Fast-Start Mechanics
Chapter 10. Mechanics of Pectoral Fin Swimming in Fishes
Chapter 11. Hydrodynamics of undulatory propulsion
Chapter 12. Biomechanics and Fisheries Conservation
Contributors: Theodore Castro-Santos and Alex Haro

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