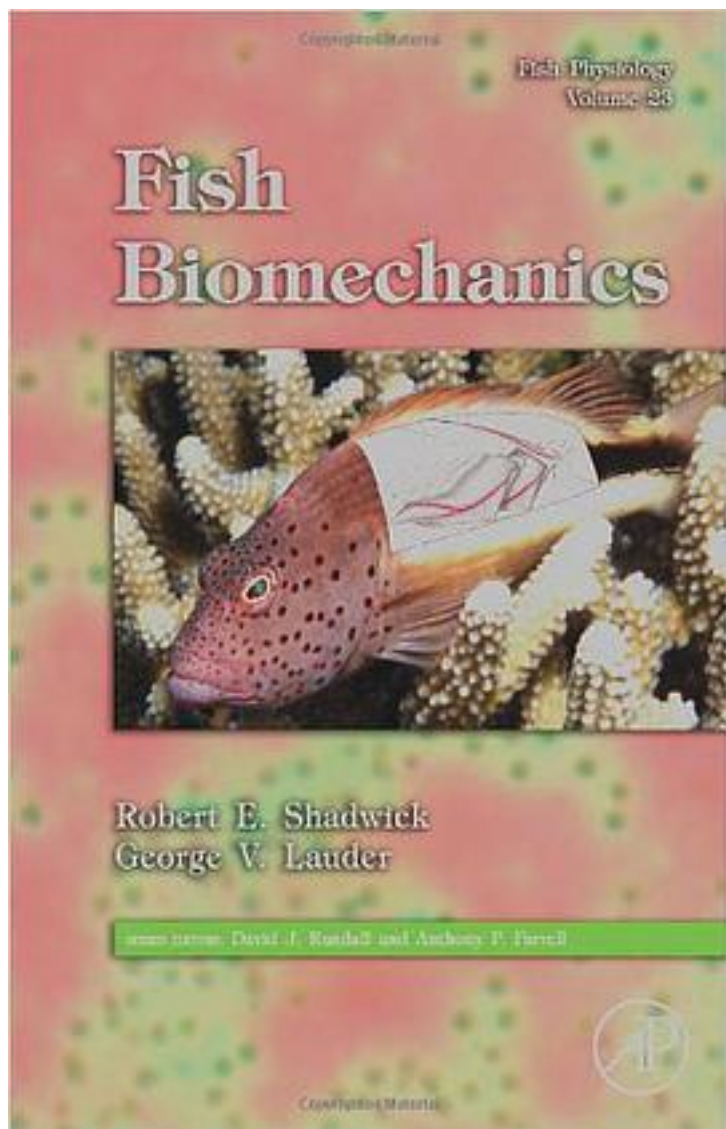


Fish Biomechanics



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This book is the first in two decades to exclusively integrate physiological and biomechanical studies of fish locomotion, feeding and breathing, making it 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. This book presents concepts in biomechanics, a rapidly expanding area of research. It is the first volume in over twenty years on this subject. Multi-author volume with contributions by leaders in the field. It includes clear explanations of basic biomechanical principles used in fish research. It is well illustrated with summary figures and explanatory color diagrams.

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