



The Vertebrate Integument Volume 2: Structure, Design and Function (Paperback)

By Theagarten Lingham-Soliar

Springer-Verlag Berlin and Heidelberg GmbH Co. KG, Germany, 2016. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.The emphasis in this volume is on the structure and functional design of the integument. The book starts with a brief introduction to some basic principles of physics (mechanics) including Newton s Three Laws of Motion. These principles are subsequently used to interpret the problems animals encounter in motion. It is in only the last 40 or so years that we have begun to understand how important a role the integument plays in the locomotion of many marine vertebrates. This involves the crossed-fiber architecture, which was first discovered in a classic study on nemertean worms. As a design principle we see that the crossed-fiber architecture is ubiquitous in nature. Research on some of the most dynamic marine vertebrates of the oceans - tuna, dolphins and sharks, and the extinct Jurassic ichthyosaurs - shows precisely how the crossed-fiber architecture contributes to high-speed swimming and (in lamnid sharks) may even aid in energy conservation. However, this design principle is not restricted to animals in the marine biota but is also found as far afield as the dinosaurs and, most recently,...

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