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The Origin Of Biological Complex Gear

By Michael Dienst

GRIN Verlag Jul 2016, 2016. Taschenbuch. Book Condition: Neu. 210x148x1 mm. This item is printed on demand - Print on Demand Neuware - Wissenschaftlicher Aufsatz aus dem Jahr 2016 im Fachbereich Ingenieurwissenschaften - Schiffstechnik, Schiffsbau, Ozeantechnik, , Veranstaltung: Bionik, Sprache: Deutsch, Abstract: The typical for surfboards and differently designed fins at the tail stabilize the board in drive and enable steering movements in the shaft. Finns are as guidance and control wing for lateral plane of surfboards and fluidic properties and the specific selection by the surfer that are critical to performance, maneuverability and style of surfing. Profile flexible, deflectable or hingedly executed designs for surfboard fins are not prior art. The specific requirements in driving and maneuvering, make flexible guidance and control systems wings desirable with non-symmetrical airfoils. The artificial fin system CARPO is inspired by the fluid-structure interaction of elastic-moving dolphin hand. The 'hands' of vertebrates form of kinematic structures that occupy adaptively and autonomously an advantageous shape under mechanical stress. This passive exercise Deformation interaction of the metacarpal (lat.: metacarpal) requires no cognitive effort of the essence. We call stress Adaptive Designs 'intelligent mechanics, i-mech'. The metacarpals system of dolphins is a spatially effective linkage, lead in...



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