



The Natural Law of Cycles: Governing the Mobile Symmetries of Animals and Machines (Hardback)

By James H. Bunn

Taylor Francis Inc, United States, 2014. Hardback. Condition: New. Language: English . Brand New Book. The Natural Law of Cycles assembles scientific work from different disciplines to show how research on angular momentum and rotational symmetry can be used to develop a law of energy cycles as a local and global influence. Angular momentum regulates small-scale rotational cycles such as the swimming of fish in water, the running of animals on land, and the flight of birds in air. Also, it regulates large-scale rotation cycles such as global currents of wind and water. James H. Bunn introduces concepts of symmetry, balance, and angular momentum, showing how together they shape the mobile symmetries of animals. Chapter 1 studies the configurations of animals as they move in a head-first direction. Chapter 2 shows how sea animals follow currents and tides generated by the rotational cycles of the earth. In chapter 3, Bunn explores the biomechanical pace of walking as a partial cycle of rotating limbs. On a large scale, angular momentum governs balanced shifts in plate tectonics. Chapter 4 begins with an examination of rotational wind patterns in terms of the counter-balancing forces of angular momentum. The author shows how these winds augment the...



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