

An elegant analysis of how animals work and function. Professor Schmidt-Nielsen's incisive account gives a clear understanding of comparative physiology in relation to body size, form and function, energy supply, and environment. The author is concerned with principles. For example, he explains how difficult it may be to lose heat and water from the respiratory tract. This leads to a consideration of the mechanism of panting as a means of heat loss. The author describes the centuries-old problem of how birds breathe, which now has been solved in his laboratory. He then discusses energy expenditure for swimming, running, and flying, and the effects of activity on heat balance. The ability of mammals to maintain different parts of the body at different temperatures is explained on the basis of counter-current heat exchange; a related mechanism permits the fast-swimming tuna to enjoy some of the advantages of being warm-blooded. The problems raised by being small in size, or large, are considered in detail. It is shown that many physiological variables can be placed on a scale which permits the derivation of non-dimensional numbers to describe the interrelations between different parameters. This interesting and stimulating account was written primarily for students, but since it brings together and synthesizes much new and up-to-date information it will interest all biologists and physiologists.

He Was Singin This Song: A Collection of Forty-eight Traditional Songs of the American Cowboy, with Words, Music, Pictures, and Stories, The Successful Merchant: Sketches of the Life of Mr. Samuel Budgett Late of Kingswood Hill, The Biological Basis of Cancer, Fundamental Numerical Methods for Electrical Engineering (Lecture Notes in Electrical Engineering), Sin at Sinai Early Judaism Encounters Exodus 32, Plane and spherical trigonometry,

How Animals Work has 26 ratings and 5 reviews. Freda said: This was a great look at the animal kingdom from every angle. Worms, Spiders, Lobsters, Fish. How Animals Work. From our studies so far, we have learned that we share the Earth with many other living things. Biologists study living things to learn as much .

Buy How Animals Work by Schmidt-Nielsen (ISBN:) from Amazon's Book Store. Everyday low prices and free delivery on eligible orders. From bats' ears to skeletons, anatomical diagrams uncover the structures and systems of animal bodies, showing in incredible detail how they work. Stunning images show wild animals in their native habitats, revealing how they use their anatomy to move, communicate, hunt and feed. Cambridge Core - Zoology - How Animals Work - by Knut Schmidt-Nielsen.

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