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animal physiology fourth edition presents all the branches of modern animal physiology with a strong emphasis on integration of physiological knowledge ecology and evolutionary biology

comprehensive contemporary and engaging animal physiology provides evolutionary and ecological context to help students make connections across all levels of physiological scale one of the major challenges instructors and students face in animal physiology is making connections across levels of biological scale animal physiology addresses this challenge by providing ecological and evolutionary context to the study of physiology at all levels of organization genome molecular biology biochemistry cells tissues organs and organ systems hill s inclusion of ecology and evolution helps readers gain a holistic perspective on animal function and sets animal physiology apart from texts that focus more narrowly on physiology hill s animal physiology is trusted by instructors and students because of its authoritative current engaging and lavishly illustrated presentation

organism and environment energy metabolism thermal relationship exchanges of salts and water mechanisms exchanges of salts and water integration nitrogen excretion and other aspects of nitrogen metabolism renal organs and excretion exchanges of oxygen and carbon dioxide basic principles respiratory environments and external respiration exchanges of oxygen and carbon dioxide transport in body fluids circulation metabolic responses to oxygen deficiency and lowered availability of oxygen the active animal

how do dolphins catch fish in murky water why do moths drink from puddles how do birds eggs breathe how do animals work in this revised and updated edition of the acclaimed text animal physiology the answers are revealed in clear and stimulating style knut schmidt nielsen introduces and develops the fundamental principles of animal physiology according to major environmental features

oxygen food and energy temperature and water the structure of the book is unchanged from the previous edition but every chapter has been updated to take into account recent developments with numerous new references and figures animal physiology is suitable as a text for undergraduate and beginning graduate courses in physiology as with previous editions students teachers as well as researchers will find this book a valuable and enjoyable companion to course work and research

this textbook for advanced graduate and postgraduate veterinary students introduces animal behaviour offering insights into its origins cognitive aspects communication environmental influences biological mechanisms complex behaviours adaptive strategies and practical applications the initial chapters present fundamental principles underpinning animal behaviour elucidating the roles of evolution genetics and ecology subsequent chapters introduce the role of natural selection habitat selection and pheromones alongside exploring conflicts predator prey dynamics and the impact of domestication on behaviour the book further delves into topics such as habitat selection foraging strategies predator prey dynamics and the effects of domestication on behaviour it unravels the mysteries of animal defences altruism social dominance territoriality and the finely tuned art of food and habitat selection additionally it covers the biological mechanisms governing behaviour unearthing the roles played by neuroendocrinology biological clocks and genetics towards the end the textbook examines the practical relevance of behavioural insights in veterinary science key features offers a comprehensive exploration of animal behaviour encompassing a wide range of topics from evolutionary principles to intricate behavioural patterns provides understanding of the origins of animal behaviour including the roles of evolution genetics and ecology highlights the practical applications of behavioural insights in veterinary science and related fields delves into specialized areas of animal behaviour such as innate behaviours animal memory pheromones and cooperation explores how animals adapt to their environments covering topics like foraging behaviour predator detection and self defensive behaviours addresses the impact of environmental factors hormones and drugs on behaviour offering a holistic view of animal responses to their surroundings

this book discusses the concepts of efficiency and economy and other similar terms as applied to animals from an evolutionary perspective

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