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Rastogi S. c John Spicer James Larimer United Kingdom Open University

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

principles of animal physiology second edition continues to set a new standard for animal physiology textbooks with its focus on animal diversity its modern approach and clear foundation in molecular and cell biology its concrete examples throughout and its fully integrated coverage of the endocrine system carefully designed full color artwork guides students through complex systems and processes while in text pedagogical tools help them learn and remember the material the book includes the most up to date research on animal genetics and genomics methods and models and offers a diverse range of vertebrate and invertebrate examples with a student friendly writing style that is consistently clear and engaging christopher moyes and patricia schulte present animal physiology in a current balanced and accessible way that emphasizes the integration of physiological systems an overarching evolutionary theme and thorough coverage of the cellular and molecular basis of animal physiology principles of animal physiology

comes with a comprehensive supplements package for students and instructors that includes a new media manager cd rom a new print and computerized test bank and a powerful companion website the interactive physiology 10 system suite cd rom and physioex v7 0 laboratory simulations can be packaged with the text at a discounted price

here is a uniquely modern approach to the study of physiological diversity that builds on the tradition established by c ladd prosser s comparative animal physiology responding to the need for a rigorously up to date comprehensive survey of function and integrative systems in a variety of species which is also easily accessible to the user dr prosser has delivered a thoroughly revised fourth edition in a convenient two volume format this carefully designed framework lets each volume zero in on distinct aspects of comparative physiology normally studied as a whole unit from the study of genetically replicating molecules to investigations of adaptive modulation these two companion volumes offer an all encompassing view of the field with their contemporary approach scholarly editing flexible format and detailed contents neural and integrative animal physiology and environmental and metabolic animal physiology will stand together as the authoritative source in the field

ein solideres fundament als diesen lehrbuchklassiker kann sich kein angehender biologe wünschen von der zellbiologie bis zur evolutionsbiologie von der genetik bis zur Ökologie alle wichtigen teildisziplinen werden von bekannten wissenschaftlern und erfahrenen dozenten umfassend und verständlich abgehandelt dabei wurde besonderer wert auf die didaktische aussagekraft der abbildungen gelegt deren fülle die attraktivität des buches verstärkt biologiestudenten können sich mit diesem lehrbuch gezielt auf die vordiplomprüfung vorbereiten auch biologielehrer und oberstufenschüler mit besonderem interesse an der biologie werden für einen fundierten Überblick gerne zu diesem lehrbuch greifen

keine ausführliche beschreibung für stoff und energiewechsel verfügbar

this textbook explores the structure and function of animals readers will gain knowledge on the diversity as well as similarities of animal physiologies at the microscopic as well as macroscopic level topics include general physiology tissues and organ systems sensory reception respiration digestion etc genetics and reproduction and evolution animal physiology is the study of how animals function this volume is designed to survey molecular and cellular physiology as well as the major physiological systems and how these systems function to maintain homeostasis in various environments

vorwort zur ersten auflage die rapide entwicklung in der biologie die vielfach zur charakterisierung des dritten viertels unseres jahrhunderts herangezogen wird hat ein umdenken in den lehr und lernzielen an den hochschulen notwendig gemacht daß biologie nicht mehr als ausgewogenes gesamtstudium betrieben werden kann war schon lange klar geworden an den einzelnen universitäten haben sich schwerpunkte von teilstudien gebildet dabei sind lücken offen geblieben die mit dem wunsch das verständnis für grundlagen des lebens zu vermitteln nicht mehr vereinbar waren um ein studium der biologie in vier bis fünf jahren ausgewogen gestalten zu können hat man sich nunmehr an vielen orten entschlossen die grundlagen unserer wissenschaft abzugrenzen das also festzulegen was zum verständnis aller lebensformen und prozessewichtig ist und als basiswissen von allen biologiestudenten vor einer notwendigen spezialisierung erwartet werden muß daraus entstand auch unser plan eine sammlung der grundkenntnisse in der biologie zusammenzustellen und sie in didaktisch geeigneter form zu präsentieren wir waren uns schnell darüber einig was zu den grundkenntnissen gerechnet werden kann der umfang ist durch den wunsch bestimmt worden die auslese so zu treffen daß der stoff in der ersten studienhälfte unterzubringen ist

ecologists have always believed at least to a certain extent that physiological mechanisms serve to underpin ecological patterns however their importance has traditionally been at best underestimated and at worst ignored with physiological variation being dismissed as either an irrelevance or as random noise error spicer and gaston make a convincing argument that the precise physiology does matter in contrast to previous works which have attempted to integrate ecology and physiology physiological diversity adopts a completely different and more controversial approach in tackling the physiology first before moving on to consider the implications for ecology this is timely given the recent and considerable interest in the mechanisms underlying ecological patterns indeed many of these mechanisms are physiological this textbook provides a contemporary summary of physiological diversity as it occurs at different hierarchical levels individual population species etc and the implications of such diversity for ecology and by implication evolution it reviews what is known of physiological diversity and in doing so exposes the reader to all the key works in the field it also portrays many of these studies in a completely new light thereby serving as an agenda for and impetus to the future study of physiological variation physiological diversity will be of relevance to senior undergraduates postgraduates and professional researchers in the fields of ecology ecological physiology ecotoxicology environmental biology and conservation the book spans both terrestrial and marine systems

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