

Claus Jessen

Core temperature ③

Temperature Regulation in Humans and Other Mammals



Temperature Regulation In Humans And Other Mammals

**Dexter F. Speck, Michael S. Dekin, W.
Robert Revelette, Donald A. Frazier**

Temperature Regulation In Humans And Other Mammals:

Temperature Regulation in Humans and Other Mammals Claus Jessen, 2012-12-06 How do mammals manage to maintain their body temperature within the same narrow range in environments as different as polar regions and hot deserts This advanced text describes the morphological features and physiological mechanisms by which humans and other mammals maintain their body temperature within a narrow range despite large variations in climatic conditions and internal heat production Its 19 chapters deal with the physics of heat exchange with the environment and the autonomic and behavioural mechanisms available to control the loss and production of heat The neuronal basis of temperature regulation and current concepts of the central nervous interface between temperature signals generated in the body and control mechanisms are examined in detail This book is of invaluable help for undergraduates postgraduates teachers physicians and scientists

Ecological and Environmental Physiology of Mammals Philip C. Withers, Christine E. Cooper, Shane K. Maloney, Francisco Bozinovic, Arioaldo P. Cruz Neto, 2016-10-27 Mammals are the so called pinnacle group of vertebrates successfully colonising virtually all terrestrial environments as well as the air bats and sea especially pinnipeds and cetaceans How mammals function and survive in these diverse environments has long fascinated mammalogists comparative physiologists and ecologists *Ecological and Environmental Physiology of Mammals* explores the physiological mechanisms and evolutionary necessities that have made the spectacular adaptation of mammals possible It summarises our current knowledge of the complex and sophisticated physiological approaches that mammals have for survival in a wide variety of ecological and environmental contexts terrestrial aerial and aquatic The authors have a strong comparative and quantitative focus in their broad approach to exploring mammal ecophysiology As with other books in the *Ecological and Environmental Physiology Series* the emphasis is on the unique physiological characteristics of mammals their adaptations to extreme environments and current experimental techniques and future research directions are also considered This accessible text is suitable for graduate level students and researchers in the fields of mammalian comparative physiology and physiological ecology including specialist courses in mammal ecology It will also be of value and use to the many professional mammalogists requiring a concise overview of the topic

Temperature Regulation in Laboratory Rodents Christopher J.

Gordon, 1993-08-27 With the help of extensive data tables and figures this book explains the key facets of rodent thermal physiology including neurological control and gender and intraspecies variations The book should therefore find use in government academic or industrial laboratories whose researchers are working with rodents

Environmental Ergonomics - The Ergonomics of Human Comfort, Health, and Performance in the Thermal Environment Yutaka Tochihara, Tadakatsu Ohnaka, 2005-04-02 *Environmental Ergonomics* addresses the problems of maintaining human comfort activity and health in stressful environments Its subject areas include thermal environments illumination noise and hypo and hyperbaric environments The book concentrates fundamentally on the way the thermal environment has affected human

comfort health and performance from the age of cave dwellings to our age of skyscrapers This book contains only papers selected from the 10th ICEE held in Japan 23 27 September 2002 The ICEE has been held biannually since 1982 and has firmly established itself as the world's most distinguished conference in its field offering the ideal forum for research scientists medical doctors engineers administrators technicians healthcare professionals and students to share their work and ideas Selected papers from the 10th International Conference on Environmental Ergonomics held in Japan 23 27 September 2002 They have been revised and peer reviewed Papers included in this text have been widely recognised as the catalyst for the recent advances witnessed in Environmental Ergonomics in Asia They strike a balance between academia and industries views on environmental ergonomics Add this volume to your copy of the Elsevier Ergonomics Book Series

Human Thermal Environments Ken Parsons, 2014-04-09 In the ten years since the publication of the second edition of Human Thermal Environments The Effects of Hot Moderate and Cold Environments on Human Health Comfort and Performance Third Edition the world has embraced electronic communications making international collaboration almost instantaneous and global However there is still a need for a compilation of up to date information and best practices Reflecting current changes in theory and applications this third edition of a bestseller continues to be the standard text for the design of environments for humans to live and work safely comfortably and effectively and for the design of materials that help people cope with their environments See What's New in the Third Edition All existing chapters significantly updated Five new chapters Testing and development of clothing Adaptive models Thermal comfort for special populations Thermal comfort for special environments Extreme environments Weather Outdoor environments and climate change Fun runs cold snaps and heat waves The book covers hot moderate and cold environments and defines them in terms of six basic parameters air temperature radiant temperature humidity air velocity clothing worn and the person's activity It focuses on the principles and practice of human response which incorporates psychology physiology and environmental physics with applied ergonomics The text then discusses water requirements computer modeling computer aided design and current standards A systematic treatment of thermal environments and how they affect humans in real world applications the book links the health and engineering aspects of the built environment It provides you with updated tools techniques and methods for the design of products and environments that achieve thermal comfort

Thermoregulation and Human Performance Frank E. Marino, 2008-01-01 Over the last decades our understanding of the relationship between thermoregulation performance and fatigue has changed dramatically New advances in technology and methodology permitted the study of rising and decreasing body temperature on metabolism and provided insights into the role the nervous system plays in determining human performance under thermally stressful situations Further analysis of previous research has been necessary in addition to considering theories derived from complimentary areas of research such as evolutionary biology anthropology and cellular and molecular biology This publication provides different interpretations of recent research

for a better understanding of the limitations of thermoregulation. In particular, it presents evidence for the human's ability to anticipate thermal limits and adjust their performance accordingly so that cellular homeostasis is preserved. Further, the book is featuring the inclusion of the effect of reduced body temperature on muscular performance and endurance, which today is a popular method for providing avenues of reduced thermal strain and recovery from exercise. This publication will be an essential read for those working in thermal medicine, exercise physiology, and human performance.

Human Physiology in Extreme Environments Hanns-Christian Gunga, 2014-11-26. Human Physiology in Extreme Environments is the one publication that offers how human biology and physiology is affected by extreme environments while highlighting technological innovations that allow us to adapt and regulate environments. Covering a broad range of extreme environments including high altitude, underwater, tropical climates, and desert and arctic climates, as well as space travel, this book will include case studies for practical application. Graduate students, medical students, and researchers will find Human Physiology in Extreme Environments an interesting, informative, and useful resource for human physiology, environmental physiology, and medical studies. Presents human physiological challenges in Extreme Environments combined in one single resource. Provides an excellent source of information regarding paleontological and anthropological aspects. Offers practical medical and scientific use of current concepts.

Human Thermal Comfort Ken Parsons, 2019-11-20. Thermal comfort is a desirable state familiar to all people. Providing inspirational indoor and outdoor environments that provide thermal comfort in the context of energy use and climate change is a challenge for the 21st century. This book provides an up-to-date comprehensive coverage of thermal comfort from principles and theory to practical application. The book begins with current knowledge and understanding of thermal comfort and its application to providing thermal conditions for indoor and outdoor environments. It integrates and presents new ideas to provide a comprehensive model of thermal comfort so that we can move on from the 20th and early 21st century and provide a focus for developments for future decades. This book will be of interest to practitioners and students and anyone involved with fields such as environmental design, physiology, ergonomics, human factors, industrial hygiene, architecture, health and safety, and air conditioning. Provides current thermal comfort standards and regulations. Describes the PMV, PPD, ET, and SET thermal comfort indices. Discusses adaptive thermal comfort, adaptive opportunity, and explains why we have not moved towards a more dynamic and interactive approach to providing thermal comfort. Presents a new model relating thermal discomfort to performance. Shows how to construct a computer model of thermal comfort. Offers how to conduct a thermal comfort survey. Human Thermal Comfort provides new ideas for achieving thermal comfort for offices, vehicles, atriums, and plazas of the future.

The ^ABiology of Human Survival Claude A. Piantadosi, 2003-09-11. This fascinating book explains how humans can live in extreme environments from a physiologist's perspective using modern concepts of stress tolerance and adaptation. The book examines how individuals cope with life under extremes of immersion, heat, cold, and altitude, emphasizing the body's recognition of stress and the brain's role

in the responses needed to escape or to adapt It also explores how humanity deals with problems of adaptation first by trial and error then by scientific experimentation and finally through technological innovation

Fundamentals of Sleep and Circadian Science Chiara Cirelli,2025 *NEW Living Science BIOLOGY for CLASS 9* , Medical Physiology Rodney Rhoades,David R. Bell,2009

Now in its Third Edition this text clearly and concisely presents the physiological principles that are essential to clinical medicine Outstanding pedagogical features include Active Learning Objectives that emphasize problem solving applications of basic principles conceptual diagrams that help students visualize complex processes case studies Clinical Focus boxes and From Bench to Bedside boxes a comprehensive glossary and online USMLE style questions with answers and explanations This edition features a new Immunology and Organ Function chapter and a completely rewritten and reorganized cardiovascular section A companion Website will include the fully searchable text an interactive question bank case studies with practice questions animations of complex processes an image bank and links for further study

A-level Biology W. D. Phillips,T. J. Chilton,1989 *Human Fatigue* Francesco E. Marino,2019-03-15 Fatigue is a condition spanning the breadth of human functioning in health and disease and is a central concern in sport and exercise Even so we are yet to fully understand its causes One reason for this lack of understanding is that we seldom consider fatigue from an evolutionary perspective as an adaptation that provided reproductive success This ground breaking book outlines the evidence that fatigue is a result of adaptations distinctive to humans It argues that humans developed adaptations which led to enhanced fatigue resistance compared with other mammals and discusses the implications in the context of exercise health and performance Highly illustrated throughout it covers topics such as defining and measuring fatigue the emotional aspect of fatigue how thermoregulation affects the human capacity to resist fatigue and fatigue in disease Human Fatigue is essential reading for all exercise scientists as well as graduate and undergraduate students in the broad field of physiology and exercise physiology

Systemic Homeostasis and Poikilostasis in Sleep Pier Luigi Parmeggiani,2011 This book aims at presenting biologists and clinicians with a compact description of the physiological manifestations of sleep that are significant from the viewpoint of the principle of homeostasis In the jargon of the physiological literature the word homeostasis introduced by W B Cannon 1926 refers to the existence of a constant state of extracellular body fluids with regard to their physical and chemical properties Since normal cell function depends on the constancy of such fluids in multicellular animals there are many regulatory mechanisms under the control of the central nervous system that act to maintain the constancy of the internal environment The experimental study of homeostasis in wakefulness already revealed the nature and complexity of the underlying physiological mechanisms Many of these regulatory mechanisms trigger compensatory changes according to the principle of negative feedback In contrast the control of homeostasis across sleep states is still an issue under debate concerning its physiological persistence and significance The author s aim is to find the specific mechanistic proofs of the actual consistency or inconsistency of the principle in different states of sleep In this

respect there are several interacting physiological functions that ought to be examined across the sleep states The selection of the most significant experimental data is carried out with a view to present a simple but not simplistic approach to the issue The book brings forth the evidence that the systemic homeostatic regulation of many physiological variables underlying cellular life is not active in a particular state of the ultradian sleep cycle in mammals It also shows the theoretical and functional importance of the principle of homeostasis as a criterion of the systemic characterisation of the integrative control of physiological functions by the central nervous system during sleep in mammals The Minder Brain Joe Herbert,2007

Ambition genius thought imagination love hate greed and above all consciousness ourselves as alive and as part of our world all this is somehow enabled by the brain The brain is the person and if it goes wrong a person is ruined This book is about part of what the brain does a role of which many of us are hardly aware but one that has ensured the survival of mankind Despite famine drought wars cold infections and hostile environments we survive as a species though not always as individuals All this time our brains have been coping with what fate throws at us a process that some call adaptation How does the brain do it How does it know what s needed How does it enable us to provide that need How much do we depend on our own brains or on those of others This book is different from other books on the brain It deals with the brain s role in survival rather than higher cognitive functions such as language or thought It describes the special part of the brain that keeps you alive that makes you feel hungry when you need energy makes you feel thirsty when you need water drives you to reproduce so that your species survives makes you fearful of things or individuals that might harm you and defends you against adversity **Anatomy and Physiology of Farm Animals** Mr. Rohit Manglik,2024-04-28 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels Minder Brain, The: How Your Brain Keeps You Alive, Protects You From Danger, And Ensures That You Reproduce Joe Herbert,2007-06-15

Ambition genius thought imagination love hate greed and above all consciousness ourselves as alive and as part of our world all this is somehow enabled by the brain The brain is the person and if it goes wrong a person is ruined This book is about part of what the brain does a role of which many of us are hardly aware but one that has ensured the survival of mankind Despite famine drought wars cold infections and hostile environments we survive as a species though not always as individuals All this time our brains have been coping with what fate throws at us a process that some call adaptation How does the brain do it How does it know what s needed How does it enable us to provide that need How much do we depend on our own brains or on those of others This book is different from other books on the brain It deals with the brain s role in survival rather than higher cognitive functions such as language or thought It describes the special part of the brain that keeps you alive that makes you feel hungry when you need energy makes you feel thirsty when you need water drives you to reproduce so that your species

survives makes you fearful of things or individuals that might harm you and defends you against adversity **Clinical Physiology of Sleep** Ralph Lydic, Julien F. Biebuyck, 2013-05-27 ROBERT WILLIAM McCARLEY Laboratory of Neuroscience Department of Psychiatry Harvard Medical School Boston and Brockton V A Medical Center Brockton Massachusetts The alternation of waking and sleeping the daily course of the advancing and receding tides of consciousness has long been a familiar part of our experience But it is a new idea that autonomic and respiratory physiology are equally and dramatically altered in a parallel fashion and it is this concept that is summarized and developed here The editors have drawn together thematically related chapters written by researchers with direct experience and a high level of expertise in the areas they address The main theme is the relationship of general physiological alterations during sleep to cellular physiology and to the pathology of sleep What is distinctive and especially appealing about this book on sleep is its emphasis on the autonomic and respiratory systems This volume is I believe the first to explore these topics systematically and to blend the nomenclological description with possible cellular mechanisms and ties to clinical pathology As such this book should find an important place in the library of workers in the fields of sleep research autonomic and respiratory physiology and related neuroscience disciplines it also belongs in the library of clinicians concerned with the disorders of sleep This overview of topics and chapters gives an indication of their catholicity **Respiratory Control** Dexter F. Speck, Michael S. Dekin, W. Robert Revellette, Donald A. Frazier,

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