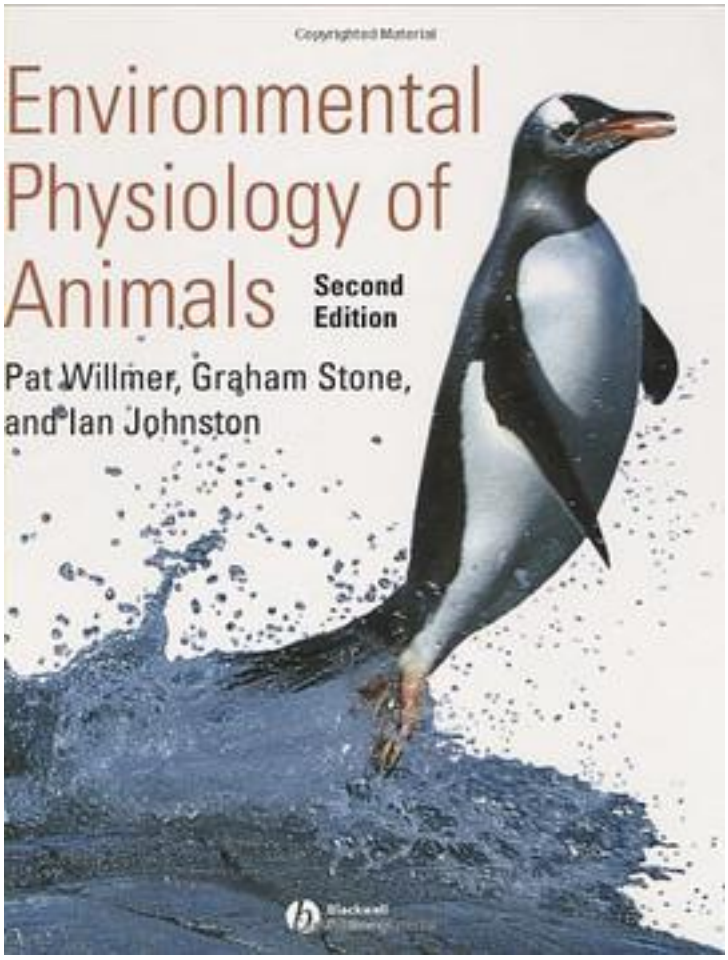
Environmental Physiology of Animals



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The new and updated edition of this accessible text provides a comprehensive overview of the comparative physiology of animals within an environmental context.

Includes two brand new chapters on Nerves and Muscles and the Endocrine System.

Discusses both comparative systems physiology and environmental physiology.

Analyses and integrates problems and adaptations for each kind of environment: marine, seashore and estuary, freshwater, terrestrial and parasitic.

Examines mechanisms and responses beyond physiology.

Applies an evolutionary perspective to the analysis of environmental adaptation.

Provides modern molecular biology insights into the mechanistic basis of adaptation, and takes the level of analysis beyond the cell to the membrane, enzyme and gene.

Incorporates more varied material from a wide range of animal types, with less of a focus purely on terrestrial reptiles, birds and mammals and rather more about the spectacularly successful strategies of invertebrates. A companion site for this book with artwork for downloading is available at: www.blackwellpublishing.com/willmer/

An Instructor manual CD-ROM for this title is available. Please contact our Higher Education team at HigherEducation@wiley.com for more information.

作者介绍:

Pat Willmer began her research career in neurobiology at Cambridge, progressively switching to broader interests in invertebrate physiology and the interactions of physiology, ecology, and behavior. Her current interests at St Andrews mainly focus on insect environmental physiology, and effects on insect-plant interactions.

Graham Stone began his research career in entomology at Oxford, progressively switching to broader aspects of the biology of insect-plant interactions. His current interests at Edinburgh mainly focus on pollination ecology (particularly of Acacia communities in Africa) and the biology of oak gallwasps.

Ian A. Johnston began his research career at Hull and Bristol. His research group at St Andrews is currently utilizing genomic, molecular, physiological, structural, and whole organism approaches to investigate muscle development and growth in teleost fish, with particular reference to temperature adaptation and the evolution of Antarctic and Arctic species.

目录:

标签

评论

3363 environmental physiology指定教材，里面引用了我们任课教授philip withers写的三篇文章和一本书。这本书不是真彩色的，内页是白绿风格的，这在2000年以后的生物大类教科书里不多见，不吸引人。这书这课算是生理学的一个细分方向，有点结合生态但又不够动态。用过时的非全彩书，配上年纪很大有点顽固还听着收音机的教授，再加上讲了那么多marsupials结果连个野外实践环节也没有连一只动物都没见着，书三星课也三星再见。

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