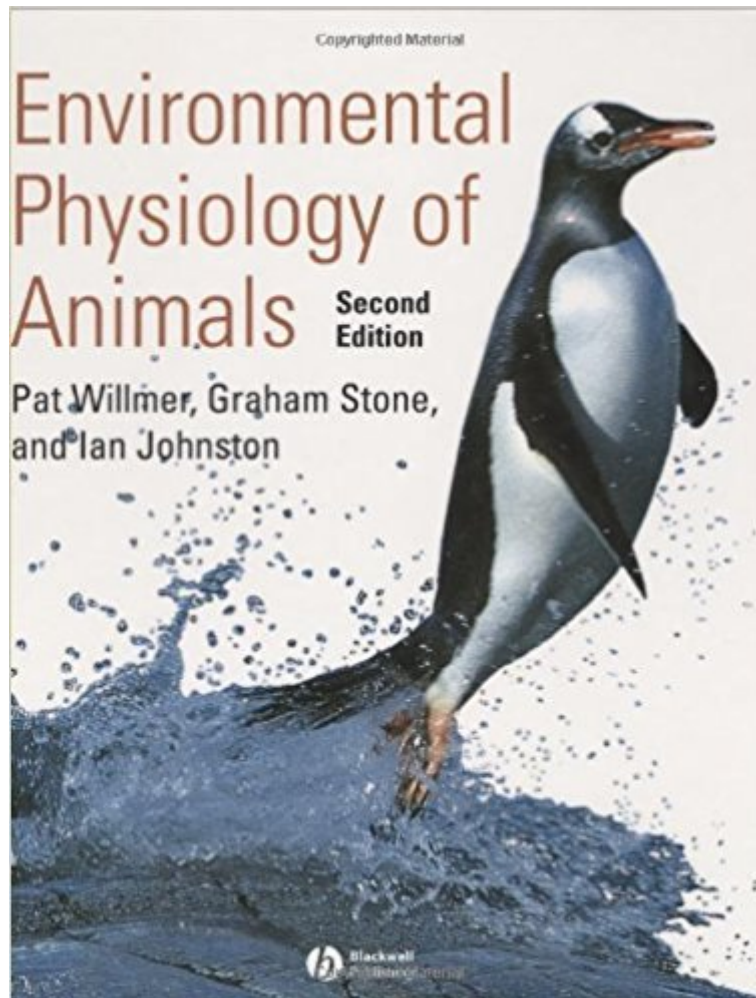




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Environmental Physiology Of Animals



Synopsis

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/

Book Information

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Customer Reviews

"...this second edition confirms its status as the first place I would go for guidance in unfamiliar physiological territory. Its level is perfect for undergraduates...this is a terrific text, and one that I recommend unreservedly." Andrew Clarke, British Antarctic Survey, Trends in Ecology and Evolution, August 2004

This new and updated edition, with two entirely new chapters, provides a comprehensive coverage of the comparative physiology of animals, in a strongly environmental context. It provides full analysis of the basic principles of physiological adaptations, in both vertebrates and invertebrates. It now also includes new chapters on the control systems (nervous and sensory systems, muscles, and hormones) and how they allow integration with the environment, suitable for introductory courses on excitable tissues. But it is unique in also providing detailed and integrated reviews of how animals sense, react to and cope with particular environments - the marine and freshwater worlds, the particularly challenging seashore and estuarine zones, the different kinds of terrestrial habitat, and the parasitic environment. In this way, physiology is for the first time properly integrated with ecological principles and with behavioural responses used by animals in coping with environmental challenges. The book provides a stand-alone core text for undergraduate courses in comparative physiology, animal physiology, or environmental physiology, but also provides key material for integrating across modules in any environmental biology degree..

This is the best animal physiology textbook I have used, and I have used several. The figures are fantastic! There is a lot of information explained in an easy way to understand! I would highly recommend this book to anyone new or well acquainted with the field of animal physiology.

This text takes the unique approach of looking at the physiology of animals found in different environments. E.g. one may be interested in the adaptations found in deep sea animals or in intertidal organisms? It is an excellent text with plenty of information to allow one to get a better understanding of the array of physiological adaptations needed. It is also interesting to see how different types of animals have solved the same physiological problem. Overall, it is fascinating reading! Highly recommended. It would be useful for a prospective reader to have some previous knowledge of zoology and physiology before taking on this book.

I bought it for my class, but didn't need it at all. It was pretty useless for me. Although it is a pretty well put-together book.

This is a comment for prospective buyers on 's confusion between the first edition (2000) and the second (2004). Somehow links on the two pages, such as the link to buy a paperback copy of the 2nd edition, take you to buying pages for the first edition. As far as I can see there never was a pb edition of the second edition.

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