



2nd ed. 2019, XIX, 230 p. 37 illus., 4 illus. in color.

Printed book

Hardcover

149,99 € | £129.99 | \$179.99 $^{[1]}$ 160,49 € (D) | 164,99 € (A) | CHF 177,00

eBook

117,69 € | £103.50 | \$139.00 $^{[2]}$ 117,69 € (D) | 117,69 € (A) | CHF 141,50

Available from your library or springer.com/shop

MvCopv [3]

Printed eBook for just € | \$ 24.99 springer.com/mycopy

Donald M. Broom, Ken G. Johnson

Stress and Animal Welfare

Key Issues in the Biology of Humans and Other Animals

Series: Animal Welfare

- · Revised and expanded 2nd Edition
- Now also includes one-health, one-welfare approach including human and animal models
- A reference source for everyone involved in moral decisions about animal usage
- Explains basic biological principles for coping with adversity and preparing for a complex environment
- Incorporates new evidence for the role of the brain in coping mechanisms

This is the Second Edition of a well-received book that reflects a fresh, integrated coverage of the concepts and scientific measurement of stress and welfare of animals including humans. This book explains the basic biological principles of coping with many forms of adversity. The major part of this work is devoted to explaining scientifically usable concepts in stress and welfare. A wide range of welfare indicators are highlighted in detail with examples being drawn from man and other species. The necessity for combining information from disciplines is emphasized with a one-health, one-welfare approach. This information forms the basis for a synthesis of new ideas. Among the issues covered are: - How brain and body systems regulate using feelings, physiological responses, behaviour and responses to pathology - Limits to adaptation - Assessing positive and negative welfare during both short-term and long-term situations - Ethical problems and suggested solutions A proper assessment of animal welfare is essential to take informed decisions about what is morally acceptable in terms of practice and in the development of a more effective legislation. This work encapsulates a very wide body of literature on scientific aspects of animal welfare and will thus prove a valuable asset for animal welfare scientists, psychologists, students and teachers of all forms of biology, behaviour, medicine, veterinary medicine and animal usage.



Order online at springer.com / or for the Americas call (toll free) 1-800-SPRINGER / or email us at: customerservice@springernature.com. / For outside the Americas call +49 (0) 6221-345-4301 / or email us at: customerservice@springernature.com.

The first \in price and the £ and \$ price are net prices, subject to local VAT. Prices indicated with [1] include VAT for books; the \in (D) includes 7% for Germany, the \in (A) includes 10% for Austria. Prices indicated with [2] include VAT for electronic products; 19% for Germany, 20% for Austria. All prices exclusive of carriage charges. Prices and other details are subject to change without notice. All errors and omissions excepted. [3] No discount for MyCopy.