



The Science of Climbing and Mountaineering (Routledge Research in Sport and Exercise Science)

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This is the first book to explore in depth the science of climbing and mountaineering. Written by a team of leading international sport scientists, clinicians and climbing practitioners, it covers the full span of technical disciplines, including rock climbing, ice climbing, indoor climbing and mountaineering, across all scientific fields from physiology and biomechanics to history, psychology, medicine, motor control, skill acquisition, and engineering.

Striking a balance between theory and practice, this uniquely interdisciplinary study provides practical examples and illustrative data to demonstrate the strategies that can be adopted to promote safety, best practice, injury prevention, recovery and mental preparation. Divided into six parts, the book covers all essential aspects of the culture and science of climbing and mountaineering, including:

- physiology and medicine
- biomechanics
- motor control and learning
- psychology
- equipment and technology.

Showcasing the latest cutting-edge research and demonstrating how science translates into practice, *The Science of Climbing and Mountaineering* is essential reading for all advanced students and researchers of sport science, biomechanics and skill acquisition, as well as all active climbers and adventure sport coaches.

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