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978-0-521-86318-6 - Space and Time in Perception and Action

Edited by Romi Nijhawan and Beena Khurana

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SPACE AND TIME IN PERCEPTION AND ACTION

What is the instantaneous position of a moving object from the point of view of the observer? How does a tennis player know when and where to place the racket in order to return a 120 mph serve? Does time stop sometimes and go faster at others? Space, time, and motion have played a fundamental role in extending the foundations of nineteenth- and twentieth-century physics. Key breakthroughs resulted from scientists who focused not just on measurements based on rulers and clocks, but also on the role of the observer. Research targeted on the observer's capabilities and limitations raises a promising new approach that is likely to forward our understanding of neuroscience and psychophysics. *Space and Time in Perception and Action* brings together theory and empirical findings from world-class experts and is written for advanced students and neuroscientists with a particular interest in the psychophysics of space, time, and motion.

ROMI NIJHAWAN is a Reader in Psychology at the University of Sussex, UK. In 1994, he introduced the phenomenon and the term "flash-lag effect." He continues to study its implications for the interaction of the animal with the environment.

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