



The Brain's Sense of Movement (New edition)

By Alain Berthoz, Giselle Weiss

Harvard University Press. Paperback. Book Condition: new. BRAND NEW, The Brain's Sense of Movement (New edition), Alain Berthoz, Giselle Weiss, The neuroscientist Alan Berthoz experimented on Russian astronauts in space to answer these questions: how does weightlessness affect motion? how are motion and three-dimensional space perceived? In this book, the author describes how human beings on earth perceive and control bodily movement. Reviewing a wealth of research in neuro-physiology and experimental psychology, he argues for a rethinking of the traditional separation between action and perception, and for the division of perception into five senses. In Berthoz's view, perception and cognition are inherently predictive, functioning to allow us to anticipate the consequences of current or potential actions. The brain acts like a simulator that is constantly inventing models to project onto the changing world, models that are corrected by steady, minute feedback from the world. We move in the direction we are looking, anticipate the trajectory of a falling ball, recover when we stumble, and continually update our own physical position, all thanks to this sense of movement. This interpretation of perception and action allows Berthoz, in this work, to focus on psychological phenomena largely ignored in standard texts: proprioception and...



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Reviews

It is one of the most popular books. I am quite late in starting to read this one, but better than never. Once you begin to read the book, it is extremely difficult to leave it before concluding.

-- **Camille Larson**

A must-buy book if you need to add benefit. It can be really interesting through looking at periods of time. It has been designed in a remarkably simple way and it is only after I finished reading this publication by which in fact I altered me, modified the way I believe.

-- **Ms. Julie Huels**

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