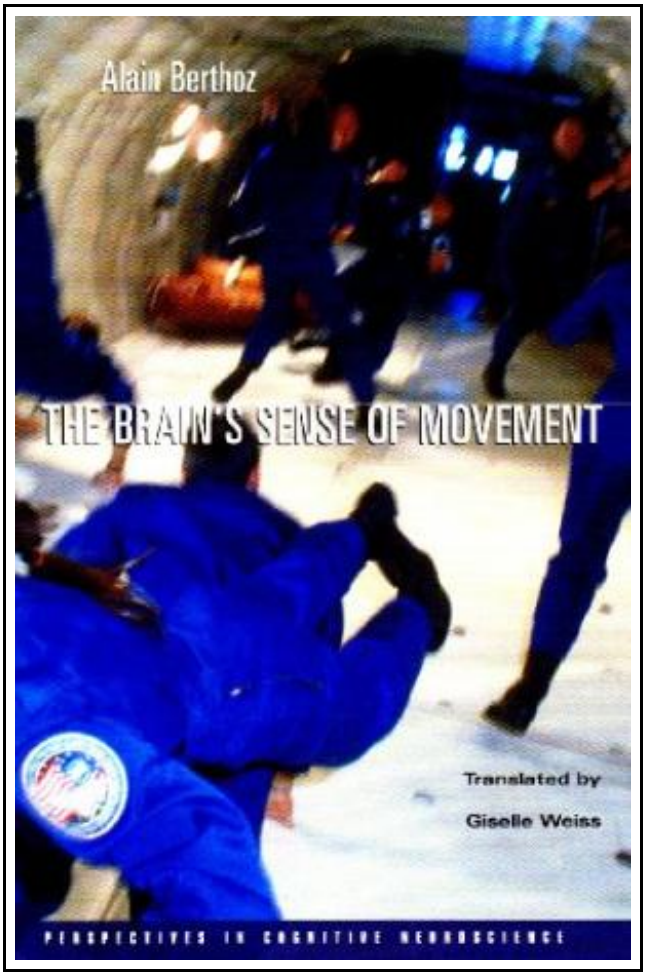
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THE BRAIN'S SENSE OF MOVEMENT (NEW EDITION)

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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 kinaesthesia, the mechanisms that maintain balance and co-ordinate actions, and basic perceptual and memory processes involved in navigation.

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