

# Contents

## **Introduction — 1**

- 1 The mind-body problem in brain-computer interfaces — 1
- 2 A brief introduction into the neuroscience of brain-computer interfaces — 8
- 3 The basic idea — 16
- 4 Overview of the book — 19

## **Chapter 1**

### **From Common-Sense Psychology to Neuroscience and Back — 23**

- 1.1 Preliminaries — 23
- 1.2 Dennett's three stances — 25
- 1.3 All a matter of interpretation? — 32
- 1.4 Could intentionality be reduced? — 68
- 1.5 Conclusion: Should intentionality be eliminated? — 88

## **Chapter 2**

### **Towards a Nonreductive Naturalisation of Intentionality — 91**

- 2.1 Preliminaries — 91
- 2.2 Sellars' clash between the manifest and the scientific image — 92
- 2.3 Stereoscopic vision — 110
- 2.4 Conclusion: Autonomy and continuity — 128

## **Chapter 3**

### **Agency and Mental Causation in Brain-Computer Interfaces — 133**

- 3.1 Preliminaries — 133
- 3.2 Agency and causation — 137
- 3.3 Mental and neural causation — 160
- 3.4 Conclusion: Agency and higher-level causes — 182

## **Conclusion — 184**

## **References — 188**

## **Index — 197**