

Contents

Introduction	9
Educational psychology of constructivist processes: Basic principles	15
Systems psychology, learning, and human cognition	23
Conceptual knowledge and conceptual change	37
Systemic-constructivist view of processes involved in knowledge construction	42
Social psychological perspective of interactive constructivist teaching	55
Cognitive mechanisms in thought experiments.....	67
Students' epistemological beliefs	83
Utilizing different worldviews and perspective changing in constructivist teaching	91
Conclusions.....	101
Glossary.....	111
Index.....	118
References	120
Summary	128