

# Contents

PREFACE ix

ACKNOWLEDGMENTS xi

INTRODUCTION 1

*one*

The Galilean Arc and Darwin's Program 5

*two*

Consciousness, Body, and Brain 12

*three*

Selectionism

*A Prerequisite for Consciousness* 23

*four*

From Brain Activity to Consciousness 35

*five*

Epistemology and Its Discontents 43

*six*

A Brain-Based Approach 53

*seven*

Forms of Knowledge

*The Divorce between Science and the Humanities* 68

<i>eight</i>	
Repairing the Rift	76
<i>nine</i>	
Causation, Illusions, and Values	88
<i>ten</i>	
Creativity	
<i>The Play between Specificity and Range</i>	98
<i>eleven</i>	
Abnormal States	106
<i>twelve</i>	
Brain-Based Devices	
<i>Toward a Conscious Artifact</i>	125
<i>thirteen</i>	
Second Nature	
<i>The Transformation of Knowledge</i>	142
NOTES	159
BIBLIOGRAPHY	173
INDEX	183

*Contents*

*viii*