

# CONTENTS

<b>Preface</b>	<b>7</b>
<b>1 Time and the Logic of Method</b>	<b>9</b>
Some Temporal Factors in Methodology	11
Time and Cause	15
Assumptions from the Natural Sciences	23
The Temporal Shape of Causal Processes	25
Concluding Comments	28
<b>2 Temporal Issues in Strategy,     Design, and Validity of Studies</b>	<b>29</b>
The Temporal Context of Research Strategies	30
Temporal Factors in Study Design	40
Temporal Factors in Threats to Internal Validity of Study Findings	49
Temporal Factors in External Validity	54
Concluding Comments	56
<b>3 Temporal Issues in the Conduct of Research</b>	<b>57</b>
Time, Change, and the Quality of Data	57
Temporal Factors in Study Procedures	63
Temporal Features of Classes of Measures	67
Time and the Conduct of Research Studies	72
Concluding Comments	75
<b>4 Exploring the X-Y Interval: Some Tactics     for the Time Structuring of Study Procedures</b>	<b>77</b>
The X-Y Interval as Both Logical and Temporal Relation	79
Gaining Information About the X-Y Relation	83
The X-Y Interval as a Temporal Window for Confounds	90
Concluding Comments	96

<b>5</b>	<b>The S-B-O Template: A Framework for Study Planning</b>	<b>97</b>
	Patterns of Data in an S-B-O Template	98
	Patterns of Data in One-Axis S-B-O Arrays	100
	Patterns of Data in Two-Axis S-B-O Arrays	103
	Patterns of Data in Three-Axis S-B-O Arrays	109
	Using the S-B-O Template to Time-Structure Study Plans	115
	Concluding Comments	123
	<b>References</b>	<b>125</b>
	<b>Glossary</b>	<b>129</b>
	<b>Index</b>	<b>146</b>
	<b>About the Authors</b>	<b>151</b>