

Contents

Acknowledgments	xi
Introduction	xiii
Notes on Methodology	xix

Part I

The Situation in Technical Society 1

Chapter 1

The World Situation 3

The Meaning of "World Situation" 3

The Historical Development of the World Situation 4

The Period of Bourgeois Revolutions 4

The Period of the Victorious Bourgeoisie 6

The Present Crisis in Civilization 7

The World Situation Reflected in Cultural Life 10

Changes in Personality Reflected in Portraiture 10

Changes in Structure of Communities 13

Changes in Education 15

The World Situation Reflected

in the Economic, Political, and International Spheres 18

The Economic Realm 18

Politics 21

International Relations 23

The World Situation in the Intellectual Realm 25

From Philosophy to Natural Sciences 25

The Aesthetic Realm 27

The Rise of Existentialism 29

Christianity and the World Situation 31

Destructive Effects of Modernity 32

Christian Acceptance and Transcendence of Reason 36

Guideposts for the Christian Answer 39

Chapter 2

The Lost Dimension in Religion 41

Religion as Ultimate Concern	42
The Loss of Ultimate Concern in Industrial Society	42
The Loss of Religious Symbols	44
The Loss of Self	45
Expressions of the Loss of Depth in Art, Literature, and Philosophy	45
Religious Answers That Confirm and Deny the Present Situation	47

Part II

The Structure and Meaning of Science and Technology	49
---	----

Chapter 3

The Logos and Mythos of Technology	51
------------------------------------	----

The Logos of Technology	51
-------------------------	----

<i>Developmental Technology</i>	53
---------------------------------	----

<i>Actualizing Technology</i>	53
-------------------------------	----

<i>Transforming Technology</i>	54
--------------------------------	----

<i>Technological Rationality</i>	54
----------------------------------	----

<i>Systematics of Technology</i>	55
----------------------------------	----

<i>Technology and Science</i>	57
-------------------------------	----

<i>Technology and Art</i>	57
---------------------------	----

The Mythos of Technology	59
--------------------------	----

Chapter 4

The Freedom of Science	61
------------------------------	----

The Concept of Free Science	61
-----------------------------	----

Science and Orthodoxy: Religious, Political, Intellectual	62
---	----

Science and Heteronomy	64
------------------------	----

Chapter 5

Participation and Knowledge:

Problems of an Ontology of Cognition	65
--	----

Basic Considerations	65
----------------------	----

<i>The Polarity of Individualization and Participation</i>	65
--	----

<i>The Tension between Separation and Participation in the Cognitive Act</i>	66
--	----

Cognitive Attitudes and Levels of Being	68
---	----

<i>Participation, Detachment, and the Phenomenological Intuition</i>	68
--	----

<i>Participation, Detachment, and Controlling Knowledge</i>	69
---	----

<i>Participation and Understanding</i>	70
--	----

<i>Knowledge and Commitment</i>	73
---------------------------------	----

Part III

Science, Technology, and Human Self-Interpretation	75
--	----

Chapter 6

How Has Science in the Last Century
Changed Man's View of Himself? 77

The Change of Man's View of Himself
under the Impact of the Technical Application of Science 77

The Change in Man's Telos 78

The Classical-Humanist Definition of Telos 78

The Transcendental-Religious Definition of Telos 78

The Scientific-Technical Definition of Telos 79

Consequences of the Scientific-Technical Telos 79

The Change of Man's View of Himself
under the Impact of Science Itself 80

Evolution and the Distinction between Religion and Science 80

The Rediscovery of Unconscious "Ideology" 81

Behaviorism and Objectification 81

Chapter 7

The Decline and the Validity of the Idea of Progress 83

The Concept and the Idea of Progress 83

Chapter 8

Expressions of Man's Self-Understanding
in Philosophy and the Sciences 97

Recapitulation and Introduction 97

Style as Self-Interpretation 97

The Two Poles 97

The Aesthetic Expression of the Situation 98

The Analogous Situation in Philosophy
and the Sciences: The Struggle about Man 98

Artistic Style and the Philosophical Element in Science 98

Symbols of Iliad and Odyssey 99

Cognitive Separation: Subject and Object 100

Cognitive Objectification and the Objectification of Self 100

The Odyssey of Return 102

The Fight about Man in the Cognitive Field 102

Reduction of Man to Knowing Subject 102

The Existentialist Protest 103

Conditioned Reflex and Gestalt 104

The Social-Scientific Interpretation of Human Being 105

Part IV

Dehumanization in Technical Society 109

Chapter 9

Thing and Self	111
Introduction	111
The Thing and the Dimensions of Life	112
<i>Self-Objectification and Loss of Unity</i>	112
<i>Logical and Existential Objects</i>	113
<i>Natural Objects</i>	114
<i>The Thing and Centeredness</i>	114
<i>Dimensions of Life</i>	114
<i>Mind and Body</i>	115
Language and Tool	116
<i>Connotative and Communicative Functions of Language</i>	116
<i>Tool as Tool</i>	117
Man and Thing	118
<i>The Reduction of the Self to Its Elements</i>	118
<i>Social Forms of "Thingification"</i>	118
<i>Mass Society</i>	119

Chapter 10

The Person in a Technical Society	123
Existentialism	123
<i>Kierkegaard and Existentialism</i>	123
<i>Marx as Existentialist</i>	125
<i>Nietzsche's Protest</i>	126
<i>Contemporary Protests</i>	128
<i>Two Shortcuts</i>	130
Humanity and the New Reality	132
<i>Conformity versus the Person</i>	134
The Struggle for Persons by the Church	135

Chapter 11

Environment and the Individual	139
Environment, Surroundings, and World	139
<i>Expressions of World</i>	140

Chapter 12

Conformity	145
------------------	-----

Chapter 13

The Relationship Today between Science and Religion 151

Principles 151

The Definition of Science 151

The Definition of Religion 151

The Conflict between Science and Religion 152

Discursive and Symbolic Language 156

Religious Symbols and Scientific Observations 156

*The Symbol of Creation and the Ontological Relation
 of God and the World* 156

The Symbol of Consummation and the Relation of Time and Eternity 157

The Symbol of Providence and the Interaction between God and the World 157

The Symbol of Revelation and the Cognitive Approach of Religion 158

Chapter 14

Religion, Science, and Philosophy 159

The Two Concepts of Religion 159

The Conflict between Religion and Culture 160

Science and Religion 161

Theology and Science 162

Symbolic and Literal Statements 163

Philosophy and Religion 169

Part V

The Symbols and Ambiguities of Technical Society 173

Chapter 15

Science and the Contemporary World
in the View of a Theologian 175

Religion and Science in the Present World 175

Religion, Science, and the Confusion of Dimensions 175

The Ambiguity of Life Manifest in Science 176

Risk and Freedom in Science 177

Chapter 16

The Technical City as Symbol 179

Thing and Symbol 179

The Uncanniness of Existence and of Things 180

The New Uncanniness of the Technical City 183

Chapter 17	
Has Man's Conquest of Space	
Increased or Diminished His Stature?	185
The Historical Situation	185
The Emotional Reactions to Space Exploration	188
<i>The Imaginative Transcendence of Earth</i>	188
Ethical and Spiritual Problems of Space Exploration	190
<i>The Objectification of Earth and the Emptiness of "Forwardism"</i>	190
<i>The Ethical Responsibilities of Science and the Scientist</i>	191
<i>The Contemporary Possibility of the Vertical</i> <i>within the Horizontal Dimension of Existence</i>	192
Sociological Consequences of Space Exploration	193
<i>Space Exploration within Economic Justice</i>	193
<i>The Growth of a Scientific Elite</i>	194
<i>Space Exploration and the Ideal of Education</i>	195
Chapter 18	
Seven Theses concerning the Nuclear Dilemma	197
Chapter 19	
The Hydrogen Cobalt Bomb	199
Bibliography	201
Index	209