

Contents

I	Time by itself	
§ 1	The nature of time	3
2	Time and consciousness	7
3	Instants and intervals	17
4	The ever-shrinking present	20
5	Concepts and experience	26
6	Denseness and continuity	29
7	The topology of time	35
8	The direction of time	43
9	Cyclic time	57
10	The measurement of time	61
11	Calendars and clocks	65
12	The rational theory of clocks	69
13	Timelessness, permanence and omnitemporality	73
14	Facts and <i>fiats</i>	78
15	The tenuousness of time	85

II	The argument from time to space	
§ 16	Space	95
17	Outline of the argument from time to space	99
18	Time, change and communication	102
19	Things	103
20	The argument from the possibility of communication to things	106
21	The argument from change to things	109
22	The argument from things and change to different sorts of qualities	111
23	Qualitative identity and numerical distinctness	112
24	Types and tokens	115
25	The Identity of Indiscernibles	118
26	Parameter space	122
27	Wireless metaphysics	124
28	Impenetrability	129
29	Dimensions and continuity	135
III	The theology of space	
§ 30	Newtonian space	141
31	Equivalence relations and groups	146
32	Digression into geometry	151
33	Interpretations	159
34	The measurement of space	163
35	<i>Τὸ ἀπειρον</i>	166
36	Reflections and rotations	173

37	The Euclidean group	179
38	Shapes and sizes	183
39	Pythagoreanism	185
40	Theodicy	188
IV Space and time together		
§ 41	The plenum	193
42	Newtonian mechanics and relativity	197
43	The Lorentz group of transformations	204
44	The transcendental derivation of the Lorentz transformations	211
45	<i>A priori</i> arguments and empirical truths	225
46	The dilatation of time	228
47	The Special and General Theories of Relativity	236
48	<i>Athanasius intra mundum</i>	242
V Return to time		
§ 49	Time reversibility in classical physics	251
50	Time and probability	258
51	Time and modality	262
52	Tenses	273
53	Dates and tenses	282
54	Future contingents and fatalism	292
55	Eternity	300
56	Alpha and omega	308
	<i>Index</i>	317