

Contents

1	A Simple Programming Example	1
2	Whole Numbers, Analysis of Arithmetic Expressions	5
3	GOTO-Statement, Loops, and BOOLEAN Variables	9
4	Polynomials, Vectors, and Matrices	18
5	Input of Data Cards (Standard Input)	25
6	Printout (Standard Output)	32
7	Treating Texts	37
8	Program Structure: Compound Statements, Blocks, Subprograms	53
9	Recursive Procedures; Predefined Subprograms	66
10	Classes as Compound Objects	73
11	Classes with Statements, Classes as a Program System	87
12	Co-routines	93
13	List Processing	99
14	Simulation	106
15	Approaching Files	115
16	EXTERNAL-Declaration	124
	Solutions of Exercises and Examples	128
Appendix	A: Internal Representation of Numbers	181
	B: Reserved and Predefined Names	183
	C: Characters used in SIMULA and Their Significance	185
	D: System Classes SIMSET and SIMULATION	186
	E: Generating Random Numbers	192
	F: Predefined External Procedures	194
	References	195
	Index	197