Contents

	Preface	i×
1	The Foundations for a New Kind of Science	I
2	The Crucial Experiment	23
3	The World of Simple Programs	51
4	Systems Based on Numbers	115
5	Two Dimensions and Beyond	169
6	Starting from Randomness	223
7	Mechanisms in Programs and Nature	297
8	Implications for Everyday Systems	363
9	Fundamental Physics	433
10	Processes of Perception and Analysis	547
1	The Notion of Computation	637
12	The Principle of Computational Equivalence	715
	Notes	849
	Index	1201