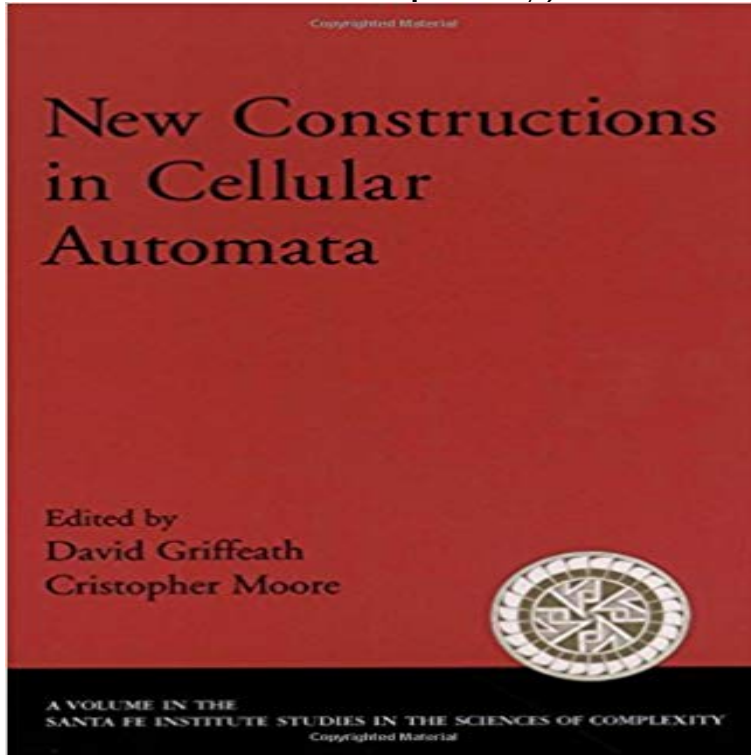


New Constructions in Cellular Automata (Santa Fe Institute Studies on the Sciences of Complexity)



This book not only discusses cellular automata (CA) as accouterment for simulation, but also the actual building of devices within cellular automata. CA are widely used tools for simulation in physics, ecology, mathematics, and other fields. But they are also digital toy universes worthy of study in their own right, with their own laws of physics and behavior. In studying CA for their own sake, we must look at constructive methods, that is the practice of actually building devices in a given CA that store and process information, replicate, and propagate themselves, and interact with other devices in complex ways. By building such machines, we learn what the CAs dynamics are capable of, and build an intuition about how to engineer the machine we want. We can also address fundamental questions, such as whether universal computation or even living things that reproduce and evolve can exist in the CAs digital world, and perhaps, how these things came to be in our own universe.

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