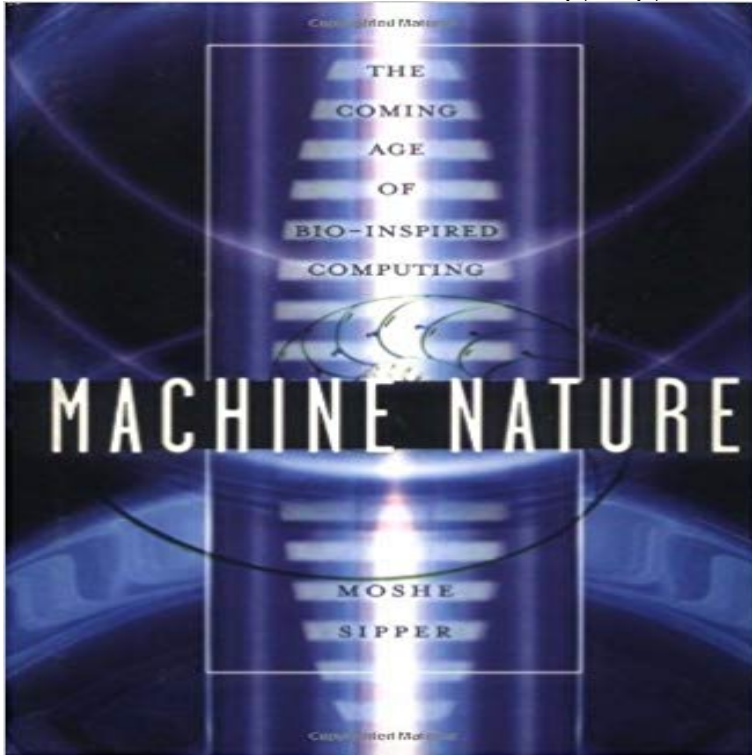


Machine Nature: The Coming Age of Bio-Inspired Computing



An enthralling look at how computer scientists have crossed the line between machines and living organisms. Despite being marvels of complexity and human ingenuity, computers are notoriously bad at learning new things and dealing with new situations. Researchers at the frontiers of computer science have turned to nature for solutions to the problem of machine adaptation and learning. By applying models of complex biological systems to the realm of computing machines, they have given rise to a new breed of adaptive software and hardware. In *Machine Nature*, computer scientist Moshe Sipper takes readers on a thrilling journey to the terra nova of computing, to provide a compelling look at cutting-edge computers, robots, and machines now and in the decades ahead, including: Embryonic chips that self-heal and artificial immune systems that function like their biological counterparts to fight off computer viruses. DNA computing a technique for building computers out of DNA instead of silicon. The deeper questions arising from the arrival of machines that are adaptive, autonomous, lifelike, and perhaps one day living.

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