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Sommario/riassunto	The past few years have witnessed intense research in this fascinating field as well as many controversial discussions. Now the time is ripe for a comprehensive book covering not only theoretical aspects, but also such mechanistic topics as principles and mechanisms of photoinduced charge injection, transport and trapping in DNA, sequence-dependent DNA dynamics, spectroscopic investigations of hole transport and much more. From the contents:* Principles and Mechanisms of Photoinduced Charge Injection, Transport and Trapping in DNA* Sequence-Dependent DNA Dynamics: The Regulator