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Sommario/riassunto

"This resource gives a comprehensive overview of surface modifications for applications in biotechnology using intelligent coatings. The coverage includes chemical properties, characterization methods, coating techniques, state-of-the-art examples, and an outlook on the promising future of this technology. It enables the interested materials scientist, chemist, or engineer to gain a comprehensive overview of the field, highlighting applications, with each chapter written by an expert in that particular area. Applications covered include tissue engineering, biotribology, drug targeting and delivery, wound healing, biosensors, nanopatterning, and bioinspired design of new smart materials and surfaces"--