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Artificial Intelligence in Polymer Science and Nanotechnology Smart and Functional Coatings Rishabha Malviya Arno Schut
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sophisticated technologies play a growing part in materials science artificial intelligence in polymer science offers a comprehensive examination of the impact of artificial intelligence on polymer research and nanotechnology encompassing ai facilitated polymer synthesis and characterisation as well as novel applications in drug delivery systems nanomaterial design and polymer informatics this book provides insightful information on both present developments and potential future directions with each chapter addressing subjects including ai powered polymer sequence design autonomous labs and machine learning in material simulations professionals in the field will gain from pragmatic illustrations and innovative methodologies rendering it a vital resource for researchers engineers and advanced scholars this thorough understanding will transform the way ai integrates polymers and nanotechnology spurring innovation and improving material properties all of which will have a major impact on applications in the fields of healthcare business and the environment

today s surface challenges are hardly redeemed by traditional coatings besides decoration or protection coatings shall bring additional features dependent on the substrate coated smart and functional coatings have become well adopted in the market in recent years and are applied to a surface to improve its performance in terms of functionality durability aesthetics and other properties these coatings are widely used in a variety of industries including automotive aerospace construction electronics

medical devices and consumer goods the book describes a wide range of smart coatings such as photocatalytic self cleaning self healing anti microbial low surface energy optical emi shielding anti corrosion and anti icing coatings it also covers nanotechnology which plays a key role in the development of smart and functional coatings as advancements in this field of technology allow for precise control over the size shape and composition of materials at the nanoscale level nanotechnology enables the incorporation of functional components such as sensors or actuators into coatings which provide responsive behavior to external stimuli or impart a specific functionality furthermore the use of nanotechnology in coatings can also lead to more sustainable and environmentally friendly solutions for example by using nanoscale particles coatings can be made thinner reducing the amount of material required and minimizing waste nanotechnology can also help develop coatings that are more efficient and durable reducing the need for frequent maintenance or replacement

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