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#### Sommario/riassunto

Keep up-to-date with the latest on adhesion and adhesives from an expert group worldwide. The present book constitutes Volume 9 in the book series *Progress in Adhesion and Adhesives* which was conceived as an annual publication and the premier volume made its debut in 2015. These volumes provide state-of-the-knowledge and curated reviews on many and varied topics about adhesion and adhesives. The current book contains 14 chapters that include the Usage of Hydrophobic and Icephobic Coatings for Aircraft Icing Mitigation; Hydrophobic Coatings: An Insight into Fundamental Concepts and Modern Applications; Enhancement of Adhesion of Polymers by Plasma Treatment; Hydrophobicity Modification of Artificial Leather by Atmospheric Pressure Plasma Treatment; Sustainable Plasma Technology as Surface Treatment on Footwear Materials: Bromination - The Only Selective Plasma Process; Structural Bonding to Low Surface Energy (LSE) Materials; Review on the Effects of a Defect and/or Joint Geometry on Stress Distribution in Tubular Joints Under Tensile Loads; Failure Cases in Adhesive Joints and Coatings; Initiating Systems for Curing Anaerobic Adhesives; Progress in Using Fungal Mycelia as Adhesive in Composites; Mechanically Responsive Hydrogels as Adhesives for Clinical Applications; Polyurea Adhesives and Coatings; Adhesion Strength of Electrode Coatings in Lithium-Ion Batteries and Supercapacitors. Audience This book will be valuable to adhesionists, adhesive technologists, polymer scientists, and materials scientists in adhesive bonding, plasma polymerization, adhesion in polymer composites, ice adhesion and mitigation, and adhesive joint testing.