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Nota di contenuto	Cover -- Series Page -- Title Page -- Copyright Page -- Contents -- Preface -- Chapter 1 On the Usage of Hydrophobic and Icephobic Coatings for Aircraft Icing Mitigation -- 1.1 Introduction -- 1.2 Experimental Setup and Test Model -- 1.2.1 Icing Research Tunnel and the Test Model Used in the Present Study -- 1.2.2 Surface Coatings Used in the Present Study -- 1.2.3 Icing Test Conditions and Measurement Systems -- 1.3 Measurement Results and Discussion -- 1.3.1 Dynamic Ice Accretion Process Over the Airfoil Surfaces Treated with Different Surface Coatings -- 1.3.2 Comparison of the Anti-/De-Icing Performance of Hybrid Systems with Different Surface Coatings -- 1.3.3 IR Thermal Imaging Results to Quantify the Anti-/ De-Icing Process with Different Surface Coatings -- 1.3.4 Determination of the Minimum Electric Power Input Required for Anti-/De-Icing Operation -- 1.4 Summary -- Acknowledgments -- References -- Chapter 2 Hydrophobic Coatings: An Insight into Fundamental Concepts and Modern Applications -- 2.1 Introduction -- 2.1.1 Importance of Hydrophobic Coatings -- 2.1.2 Historical Background and Evolution of Hydrophobic Coatings -- 2.1.3 Fundamentals of Hydrophobic Coatings Surface Free Energy and Wettability -- 2.1.3.1 Surface Free Energy -- 2.1.3.2 Contact Angle -- 2.2 Practical Implications and Applications -- 2.2.1 Theoretical Background -- 2.2.1.1 Young's Equation -- 2.2.1.2 Wenzel Equation -- 2.2.1.3 Cassie-Baxter Equation -- 2.2.2 Contact

Angle Hysteresis -- 2.3 Emergence of Synthetic Hydrophobic Coatings -- 2.3.1 Polymer Structure and Bioadhesion -- 2.3.2 Recent Advancements and Future Perspectives -- 2.4 Advancements in Coatings -- 2.4.1 Multifunctional and Self-Healing Coatings -- 2.4.1.1 Sustainable and Environmentally Friendly Coatings -- 2.4.2 Conventional Approaches -- 2.5 Emerging Approaches -- 2.5.1 Biomimetic Surface Topography. 2.5.2 Self-Assembled Monolayers (SAMs) -- 2.5.3 Organic Hydrophobic Coatings -- 2.5.3.1 Fluoropolymer Coatings -- 2.5.3.2 Silicone-Based Coatings -- 2.5.3.3 Acrylic-Based Coatings -- 2.5.3.4 Polyurethane Coatings -- 2.5.3.5 Epoxy-Based Coatings -- 2.5.3.6 Nanostructured Organic Coatings -- 2.5.4 Inorganic Hydrophobic Coatings -- 2.5.4.1 Fluorinated Inorganic Coatings -- 2.5.5 Potential Challenges and Limitations -- 2.6 Future Outlook and Research Opportunities -- 2.7 Summary -- References -- Chapter 3 Enhancement of Adhesion of Polymers by Plasma Treatment: A Critical Review -- 3.1 Introduction -- 3.2 Plasma Processes -- 3.2.1 Low-Temperature Plasma -- 3.2.2 Different Techniques for the Formation of a Low-Temperature Plasma Discharge -- 3.2.3 Advanced Technology Used for the Generation of Low-Temperature Plasma -- 3.2.4 Properties of Low-Temperature Plasma Discharge -- 3.3 Plasma-Polymer Interaction -- 3.3.1 Functionalization -- 3.3.2 Crosslinking -- 3.3.3 Surface Etching/Ablation -- 3.3.4 Deposition -- 3.4 Effects of Plasma Treatment of Various Polymers -- 3.4.1 Reactive Plasma -- 3.4.1.1 Surface Wettability -- 3.4.1.2 Surface Morphology -- 3.4.1.3 Surface Chemistry -- 3.4.2 Non-Reactive Plasma -- 3.4.2.1 Surface Wettability -- 3.4.2.2 Surface Morphology -- 3.4.2.3 Surface Chemistry -- 3.5 Improvement of Adhesion of Various Polymers by Plasma Treatment -- 3.5.1 Adhesion Theories -- 3.5.2 Effect of Reactive Plasma on Adhesion -- 3.5.3 Effect of Non-Reactive Plasma on Adhesion -- 3.6 Summary -- References -- Chapter 4 Hydrophobicity Modification of Artificial Leather by Atmospheric Pressure Plasma Treatment -- 4.1 Introduction -- 4.2 Atmospheric Pressure Plasma Treatment -- 4.3 Applications of Atmospheric Pressure Plasma -- 4.4 Leatherette -- 4.5 Changes in Hydrophobicity of Leatherettes After the Atmospheric Plasma Treatment -- 4.6 Results. 4.7 Summary -- Acknowledgements -- References -- Chapter 5 Sustainable Plasma Technology as Surface Treatment on Footwear Materials: A Review -- 5.1 Introduction to Plasma Technology as Surface Treatment -- 5.2 Plasma Technology in Footwear Industry -- 5.3 Types of Plasma Technology Used for Surface Treatment -- 5.4 Plasma Surface Treatment on Footwear Materials -- 5.4.1 The Multifaceted Effects of Plasma Treatment on Polymeric Materials -- 5.4.1.1 Cleaning with Plasma -- 5.4.1.2 Activation with Plasma -- 5.4.1.3 Etching with Plasma -- 5.4.1.4 Coating with Plasma -- 5.4.1.5 Material-Specific Treatments and Benefits -- 5.5 Characterization of Plasma Treated Footwear Materials -- 5.5.1 Chemical Composition -- 5.5.2 Surface Morphology -- 5.5.3 Surface Wettability -- 5.5.4 Adhesion Property -- 5.6 Plasma Technology in Combination with Other Sustainable Technologies in the Footwear Industry -- 5.6.1 Coupling with Renewable Energy -- 5.6.2 Synergy with Recycling and Upcycling Practices -- 5.6.3 Plasma and Biotechnology -- 5.6.4 Smart Manufacturing and IoT Integration -- 5.6.5 Collaborative Research and Development -- 5.7 Benefits and Limitations of Sustainable Plasma Technology for Reducing Environmental Impact -- 5.7.1 Benefits -- 5.7.2 Limitations -- 5.7.3 Solutions -- 5.8 Tips and Best Practices -- 5.9 Summary and Prospects -- References -- Chapter 6 Bromination - The Only Selective Plasma Process -- 6.1 Introduction -- 6.2 Reaction

Mechanisms of Chemical Bromination -- 6.2.1 Chemical Bromination of Hydrocarbons and Polyolefins -- 6.2.2 Bromination of Unsaturation -- 6.2.3 Bromination of Graphene Substrates -- 6.2.4 Bromination of Related Carbon Materials -- 6.3 Plasmachemical Bromination -- 6.3.1 Polyolefins -- 6.3.2 Competition Between Bromination and Oxidation via Peroxide Formation -- 6.3.3 Coating of Polyolefins with Br-Containing Thin Films. 6.3.4 Plasma Bromination of Graphene -- 6.3.5 Carbon Nanotubes -- 6.3.6 Coating of Polyolefins with Br-Carrying Plasma Polymers -- 6.4 Reactions at C-Br Moieties -- 6.4.1 Nucleophilic Substitution of C-Br at Polyolefins -- 6.4.2 Nucleophilic Substitution of C-Br at Carbon Materials -- 6.4.3 Post-Plasma Gas Phase Substitution -- 6.4.4 Catalytic Effect of Brominated Materials -- 6.5 Summary -- Acknowledgement -- References -- Chapter 7 Structural Bonding to Low Surface Energy (LSE) Materials -- 7.1 Introduction -- 7.2 Types of Low Surface Energy Materials -- 7.2.1 Polypropylene (PP) -- 7.2.2 Polyethylene (PE) -- 7.2.3 Polytetrafluoroethylene (PTFE) -- 7.3 Why are LSE Materials Hard to Bond? -- 7.3.1 Poor Surface Chemistry and Surface Energy -- 7.3.1.1 Surface Energy -- 7.3.1.2 Surface Energy and Wetting -- 7.3.2 Limited Diffusion -- 7.3.3 Limited Chemical Bond Formation -- 7.4 Bonding to LSE Materials -- 7.4.1 Surface Treatment -- 7.4.1.1 Cleaning the Surface -- 7.4.1.2 Flame Treatment -- 7.4.1.3 Plasma Treatment -- 7.4.1.4 Laser Treatment -- 7.4.1.5 Chemical Treatment -- 7.4.1.6 UV Radiation Treatment -- 7.4.2 Adhesive Bonding to LSE Materials -- 7.4.2.1 Thermosetting Acrylic Adhesives -- 7.4.2.2 Pressure-Sensitive Acrylic Adhesives -- 7.4.2.3 Cyanoacrylate Adhesive -- 7.4.2.4 Diazirine Adhesives -- 7.5 Summary -- References -- Chapter 8 A Review on the Effects of a Defect and/or Joint Geometry on Stress Distribution in Tubular Joints Under Tensile Loads -- 8.1 Introduction -- 8.2 Stress Distribution in Adhesively Bonded Joints Under Tensile Loads -- 8.2.1 Governing Linear Elasticity Equations for a Tubular Single Lap Joint Under a Tensile Load -- 8.2.1.1 Governing Linear Elasticity Equations for a Defect-Free Tubular Single Lap Joint Under a Tensile Load. 8.2.1.2 Governing Linear Elasticity Equations for a Defective Tubular Single Lap Joint Under a Tensile Load Hosting a Cylindrical Void -- 8.2.1.3 Governing Linear Elasticity Equations for a Defective Tubular Single Lap Joint Under a Tensile Load Hosting a Cylindrical Debond -- 8.2.1.4 Solution for Stress Distribution in the Adhesive Layer of a Tubular Joint Under a Tensile Load -- 8.3 Estimation of Stress Concentration Factor in the Welded Tubular Joints Under Axial Brace Loads -- 8.3.1 Estimation of Stress Concentration Factors in Welded T-, K-, and TK-Joints Under Axial Brace Loads -- 8.3.2 Estimation of Stress Concentration Factors in the Welded T- and TK-Joints with Unequal Brace Diameters Under Axial Brace Loads -- 8.3.3 More General Expressions for Variation of Stress Concentration Factors in the Tubular Welded Joints -- 8.3.3.1 T- and Y-Joints -- 8.3.3.2 DTK-Joint -- 8.4 Stress Distribution in Welded T-Joints Stiffened by Fiber-Reinforced Polymer (FRP) Under Axial Brace Load -- 8.5 Summary -- References -- Chapter 9 Failure Cases in Adhesive Joints and Coatings -- 9.1 Introduction -- 9.1.1 General -- 9.1.2 Parameters Affecting Joint Strength Leading to Failure -- 9.1.2.1 Residual Stresses -- 9.1.2.2 External Temperature and Humidity -- 9.1.2.3 External Stress -- 9.1.2.4 Adhesive Thickness -- 9.1.2.5 Non-Parallel Adherends -- 9.1.2.6 Surface Treatment -- 9.1.3 Causes of Failure -- 9.1.4 Modes of Failure -- 9.1.5 Determination of Failures -- 9.1.5.1 Visual Inspection -- 9.1.5.2 Non-Destructive Testing (NDT) -- 9.1.5.3 Mechanical Testing -- 9.1.5.4 Chemical Analysis -- 9.1.5.5 Verification -- 9.1.6

Analytical Techniques -- 9.1.6.1 Scanning Electron Microscopy (SEM) -- 9.1.6.2 Fourier-Transform Infrared Spectroscopy (FTIR) -- 9.1.6.3 Differential Scanning Calorimetry (DSC) -- 9.1.6.4 Acoustic Emission (AE) -- 9.1.6.5 Microhardness Testing.  
9.1.7 Stages in Failure Analysis.

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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.

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