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Transmission Electron Microscopy (TEM); 4.8Electron Spectroscopy for Chemical Analysis (ESCA); 4.9Auger Electron Spectroscopy (AES); 4.10 Ion Scattering Spectroscopy (ISS); 4.11Secondary Ion Mass Spectroscopy (SIMS); 4.12Mass Spectroscopy (MS) or spectrometry; 4.13Gas Chromatography (GC); 4.14Nuclear Magnetic Resonance (NMR); 4.15 Differential Scanning Calorimetry (DSC); 4.16Differential Thermal Analysis (DTA); 4.17Dynamic Mechanical Analysis (DMA) 4.18Thermogravimetric Analysis (TGA)References; Chapter 5 Material Surface Preparation Techniques; 5.1Introduction; 5.2General Considerations; 5.3Surface Treatment of Metals; 5.4Cleaning (Degreasing) Metals; 5.5Priming; 5.6Surface Treatment of Plastics; 5.7 Methods for Evaluating Effectiveness of Surface Preparation; 5.8Surface Exposure Time (SET); References; Chapter 6 Surface Preparation of Metals; 6.1Introduction; 6.2Aluminum; 6.3Beryllium; 6.4Brass; 6.5 Bronze; 6.6Cadmium; 6.7Copper and Copper Alloys; 6.8Gold; 6.9 Magnesium and Magnesium Alloys; 6.10Nickel and Nickel Alloys; 6.11 Platinum 6.12Silver6.13Steel; 6.14Stainless Steel; 6.15Tin; 6.16Titanium; 6.17 Tungsten and Alloys; 6.18Uranium; 6.19Zinc and Alloys; 6.20 Weldbonding Metals; 6.21Conclusions; References; Chapter 7 Surface Preparation of Thermoplastics, Thermosets, and Elastomers; 7.1 Introduction; 7.2Thermoplastics; 7.3Thermosets; 7.4Reinforced Plastics/Thermosets; 7.5Reinforced Thermoplastics (Glass-Reinforced); 7.6Plastic Foams; 7.7Surface Preparation of Rubbers; 7.8Thermoplastic Elastomer; 7.9Painted Surfaces; 7.10Conclusions; References; Part III: Adhesive Characteristics Chapter 8 Characteristics of Adhesive Materials

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### Sommario/riassunto

The Applied Handbook of Adhesives provides a thoroughly practical survey of all aspects of adhesives technology from selection and surface preparation to industrial applications and health and environmental factors. The resulting handbook is a hard-working reference for a wide range of engineers and technicians working in the adhesives industry and a variety of industry sectors that make considerable use of adhesives. Particular attention is given to adhesives applications in the automotive, aerospace, medical, dental and electronics sectors. <p

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