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| 1. Record Nr. | UNINA9910781221403321 |
| Autore | Mitchell Allan <1933-> |
| Titolo | The devil's captain [[electronic resource]] : Ernst Junger in Nazi Paris, 1941-1944 // Allan Mitchell |
| Pubbl/distr/stampa | New York, : Berghahn Books, 2011 |
| ISBN | 0-85745-115-4 |
| Descrizione fisica | 1 online resource (139 p.) |
| Disciplina | 838.91209 |
| Soggetti | Soldiers - Germany Authors, German - 20th century Paris (France) History 1940-1944 Paris (France) Intellectual life 20th century Paris (France) Biography France History German occupation, 1940-1945 |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | Description based upon print version of record. |
| Nota di bibliografia | Includes bibliographical references and indexes. |
| Nota di contenuto | The loner -- The road to Paris -- Photograph section I -- Man about town -- Dreaming and musing -- Strange interlude -- Kniebolo and the Nazis -- Photograph section II -- The plot against Hitler -- Telling omissions -- Immediate afterthoughts -- The correspondent -- Photograph section III -- Postscript: Liebe Sophie. |
| Sommario/riassunto | Author of Nazi Paris, a Choice Academic Book of the Year, Allan Mitchell has researched a companion volume concerning the acclaimed and controversial German author Ernst Junger who, if not the greatest German writer of the twentieth century, certainly was the most controversial. His service as a military officer during the occupation of Paris, where his principal duty was to mingle with French intellectuals such as Jean Cocteau and with visiting German celebrities like Martin Heidegger, was at the center of disputes concerning his career. Spending more than three years in the Frenc |

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| 2. Record Nr. | UNINA9911007137703321 |
| Autore | Pocius Alphonsus V |
| Titolo | Adhesion and Adhesives Technology : An Introduction // Alphonsus V. Pocius |
| Pubbl/distr/stampa | Munchen : , : Hanser, , 2021 ©2021 |
| ISBN | 9781523145096 1523145099 9781569908501 1569908508 |
| Edizione | [4th ed.] |
| Descrizione fisica | 1 online resource (397 pages) |
| Disciplina | 668/.3 |
| Soggetti | Adhesion Adhesives |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Nota di contenuto | Intro -- Preface -- Contents -- 1 Introduction -- 1.1 Introduction and Chapter Objectives -- 1.2 Basic Definitions -- 1.3 Advantages and Disadvantages of Adhesive Bonding -- 1.4 Uses of Adhesive Bonding in Modern Industry -- 1.5 Economics of Adhesive Technology -- 1.6 Literature and Other Sources of Information -- 1.7 Summary -- References -- 2 The Mechanical Properties of Materials as They Relate to Adhesion -- 2.1 Introduction -- 2.2 Definition of Mechanical Stresses for Materials Testing -- 2.3 Stress-Strain Plots and the Definition of Materials Property Parameters -- 2.3.1 Tensile Forces -- 2.3.2 Shear Forces -- 2.3.3 Strain Energy Density -- 2.4 Introduction to Linear Elastic Fracture Mechanics -- 2.5 Introduction to Rheology of Liquids -- 2.6 Introduction to Linear Viscoelasticity -- 2.7 An Application of Materials Properties and Mechanics: The Bending of Beams -- 2.8 Summary -- Bibliography -- Problems and Review Questions -- 3 Mechanical Tests of Adhesive Bond Performance -- 3.1 Introduction -- 3.2 Failure Modes and the Definition of Practical Adhesion -- 3.3 Tensile Testing of Adhesive Bonds -- 3.4 Shear Loading of Adhesive Bonds -- 3.4.1 The Standard Lap Shear Specimen |

-- 3.4.2 Variations on the Lap Shear Specimen -- 3.4.3 Specimen for Determining the True Shear Properties of an Adhesive -- 3.4.4 The Goland-Reissner Analysis of the Lap Shear Specimen -- 3.5 Cleavage Loading of Adhesive Bonds -- 3.5.1 Cleavage or Fracture Specimens -- 3.5.1.1 Double Cantilever Beam Specimens -- 3.5.1.2 Linear Elastic Fracture Mechanics Applied to the Double Cantilever Beam Specimen -- 3.5.2 Blister Test -- 3.5.3 Compact Tension Test -- 3.5.4 Wedge Test -- 3.6 Peel Tests -- 3.6.1 Stress Analysis in a Peel Specimen -- 3.7 Summary -- Bibliography -- References -- Problems and Review Questions -- 4 The Basics of Intermolecular Forces and Surface Science. 4.1 Introduction -- 4.2 Fundamental Forces -- 4.2.1 Electrostatic Forces -- 4.2.2 van der Waals Interactions -- 4.2.2.1 Dipole-Dipole Interactions -- 4.2.2.2 Dipole-Induced Dipole -- 4.2.2.3 Dispersion Forces -- 4.2.3 Interactions through Electron Pair Sharing -- 4.2.4 Repulsive Forces -- 4.3 Surface Forces and Surface Energy -- 4.4 Work of Cohesion and Adhesion -- 4.5 Methods of Measurement of Surface Energy and Related Parameters -- 4.5.1 Surface Tension -- 4.5.1.1 Drop Weight/Volume Method -- 4.5.1.2 Du Nuoy Tensiometer -- 4.5.2 Surface Energy of Solids -- 4.5.2.1 Contact Angle Methods -- 4.5.2.2 Contact Mechanics and Direct Measurement of Solid Surface Energy -- 4.6 Surface Thermodynamics and Predictions of Surface and Interfacial Tensions -- 4.6.1 The Good-Girifalco Relationship -- 4.6.2 The Fowkes Hypothesis and Fractional Polarity -- 4.6.3 The Zisman Plot -- 4.6.4 Modern Application of Contact Angle Measurements -- 4.7 Modern Methods of Surface Analysis -- 4.7.1 Modern Methods for Analysis of the Chemistry of Surfaces -- 4.7.2 Topological Methods of Surface Analysis -- 4.8 Summary -- Bibliography -- References -- Problems and Review Questions -- 5 Basic Physico/Chemical Properties of Polymers -- 5.1 Introduction -- 5.2 Basic Terminology -- 5.2.1 Monomers versus Polymers -- 5.2.2 Basic Types of Polymeric Materials -- 5.2.3 Molecular Weight -- 5.3 Thermal Transitions of Polymers -- 5.3.1 Measurement of Tg -- 5.4 Dynamic Mechanical Measurements and Viscoelasticity -- 5.4.1 Methods of Measurement of Dynamic Mechanical Properties -- 5.4.2 Examples of Dynamic Mechanical Data for Polymers -- 5.5 Time-Temperature Superposition -- 5.6 Summary -- Bibliography -- References -- 6 The Relationship of Surface Science and Adhesion Science -- 6.1 Introduction -- 6.2 Rationalizations of Adhesion Phenomena -- 6.3 Electrostatic Theory of Adhesion. 6.4 Diffusion Theory of Adhesion -- 6.4.1 Diffusive Adhesive Bonding and Block Copolymers at Interfaces -- 6.5 Mechanical Interlocking and Adhesion -- 6.5.1 Kinetics of Pore Penetration -- 6.6 Wettability and Adhesion -- 6.7 Acid-Base Interactions at Interfaces -- 6.8 Covalent Bonding at Interfaces -- 6.8.1 Coupling Agents -- 6.9 The Relationship of Fundamental Forces of Adhesion and Practical Adhesion -- 6.10 The Weak Boundary Layer -- 6.11 Summary -- Bibliography -- References -- Problems and Review Questions -- 7 The Surface Preparation of Adherends for Adhesive Bonding -- 7.1 Introduction -- 7.2 Plastic Surface Preparation -- 7.2.1 Corona Discharge Treatment -- 7.2.1.1 Corona Discharge Treatment of Polyethylene -- 7.2.1.2 Corona Discharge Treatment of Polypropylene -- 7.2.1.3 Corona Discharge Treatment of Poly(ethylene terephthalate) -- 7.2.1.4 Corona Discharge Treatment of Other Materials -- 7.2.2 Flame Treatment -- 7.2.3 Plasma Treatment -- 7.2.3.1 Plasma Treatment of PE -- 7.2.3.2 Plasma Treatment of Other Substrates -- 7.2.4 Other Physical Treatment Methods of Polymer Surfaces -- 7.2.4.1 Treatments Using Ultraviolet Radiation -- 7.2.4.2 Other Vacuum Methods of Surface Preparation -- 7.2.5 Wet Chemical Methods of Treatment of Polymer Surfaces --

7.2.5.1 Single Surface Chemical Functionalization and Chromic Acid Treatment of PE -- 7.2.5.2 Wet Chemical Surface Treatment of Poly(tetrafluoroethylene) -- 7.2.6 Priming of Polymer Surfaces -- 7.2.6.1 Priming of Polyolefins for Cyanoacrylates -- 7.2.6.2 Chlorinated Polyolefins -- 7.2.7 Surface of Composite Materials -- 7.2.7.1 Mechanical Surface Treatment of Composites -- 7.2.7.2 Peel-Plies as a Method of Composite Surface Preparation -- 7.2.7.3 A Comparison of Treatment Methods for Graphite Epoxy Reinforced Composite -- 7.2.7.4 Summary -- 7.3 Metal Surface Preparation.

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Sommario/riassunto

This book describes in clear understandable language the three main disciplines of adhesion technology: mechanics of the adhesive bond; chemistry of adhesives; and surface science. Some knowledge of physical and organic chemistry is assumed but no familiarity with the science of adhesion is required.
