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Books Received

COLLOID CHEMISTRY OF POLYMERS. Yuri S. Lipatov. Polymer Science Library, Volume 7, A. D. Jenkins, Ed. Elsevier, Amsterdam, 1988, 450 pp. (US\$155.25). (Translated from the Russian by A. Kozi)

This book contains 13 chapters covering the following subjects:

Foreword

1. General colloid chemistry of polymers
2. Microheterogeneous structure of one- and multi-component polymer substances
3. Structure formation in disperse polymer systems
4. Surface tension in disperse systems
5. Surface-active properties of polymers and the influence of low-molecular-mass surfactants on the properties of disperse-polymer systems
6. Adsorption of polymers on solid surfaces
7. Polymer adhesion
8. Structure and properties of surface and interfacial polymer layers
9. Filled polymers as disperse systems
10. Colloidal mixtures of polymers
11. Colloid-chemical features of polymer-polymer systems
12. Gelation of solutions; polymer gels
13. Polymer emulsions, dispersions and foams

Epilogue

Subject index

SEALANTS IN CONSTRUCTION. Jerome M. Klosowski. Marcel Dekker, Inc., New York, 1989, 310 pp. (US\$85.00).

The stated purpose of this book is to provide quick, easy reference to sealants: how to choose them for a particular application, how to apply them, how to test them and what the tests mean, and how to design a proper sealant joint.

The book is divided into six chapters with headings as given below and

anywhere from six to twenty-two subheadings:

Preface

Introduction

1. Selecting Joint Sealants
2. Types of Sealants
3. Sealant Specifications and Testing
4. Sealant Applications (the largest chapter)
5. Structural Glazing
6. Silicone Sealants

Index

CONSTRUCTION AND STRUCTURAL ADHESIVES AND SEALANTS.
An Industrial Guide. Ernest W. Flick. Noyes Publications, Park Ridge, NJ, 1988,
754 pp. (US\$78.00).

The Preface to this book states that it, "... describes more than 1600 construction and structural adhesive, sealants and related products which are currently available for industrial, commercial and consumer use." The book lists the following product information, as available, in the manufacturer's own words:

- (1) Company name and product category
- (2) Trade name and product numbers
- (3) Product description: a description of the product, as presented by the supplier.

It is divided into three sections, covering:

- I Product Information (pp. 2-712)
- II Sample Formulations (pp. 715-737)
- III Suppliers' Addresses (pp. 740-744)

There is also a Trademark/Trade Name Index.

TREATISE ON ADHESION AND ADHESIVES, Volume 6. Robert L. Patrick, (posthumous) Ed. Marcel Dekker, Inc. New York, 1989, 290 pp. (US\$99.75).

This book is, in a sense, a memorial to two of its contributors, both of whom died before the book was released; Robert L. Patrick, the Editor of this series, who died in February, 1985 and Garron P. Anderson who died in November, 1988. Dr. Anderson, a co-author of the Preface and Chapter 3 of the book, was also guest co-editor of the volume, along with Dr. K. L. DeVries.

The contents of the book are as follows:

- Memorial
- Preface
- Contributors
- Contents of Other Volumes
- 1. Interpreting Peel Tests, *James R. Huntsberger*
- 2. Energy Conservation During Peel Tests, *Gary R. Hamed*
- 3. Analysis of Standard Bond Strength Tests, *Garron P. Anderson and K. L. DeVries*
- 4. Fracture of Epoxy and Elastomer-Modified Epoxy Polymers, *Willard D. Bascom and Donald L. Hunston*
- 5. Adhesion of Carbon Fibers to Epoxy Matrices, *Lawrence T. Drzal*
- 6. Role of X-Ray Photoelectron Spectroscopy in Understanding Adhesion Phenomena: Fundamental Studies and Technological Applications, *Herbert R. Anderson, Jr. and Krishna G. Sachdev*
- 7. Coupling Agents as Adhesion Promoters in Adhesive Bonding, *F. J. Boerio*
- Index

FUNDAMENTAL PRINCIPLES OF FIBER REINFORCED COMPOSITES.
 Ken Ashbee. Technomic Publishing Co., Lancaster, PA, 1989, 372 pp.
 (US\$75.00).

This hard cover book is a teaching text for senior undergraduate and graduate students in engineering. The author suggests that the text is suitable for readers in the disciplines of mechanical, civil and aeronautical engineering, engineering physics and materials science. The volume contains twelve chapters as follows:

- Foreword
- Preface
- 1. Specific Strength and Specific Modulus
- 2. Materials and Processing
- 3. Anisotropy of Stress
- 4. Stresses in a Plate Arising from the Presence of a Hole
- 5. Anisotropy of Elasticity
- 6. Elasticity of Orthotropic Laminates
- 7. Anisotropy of Thermal Expansion
- 8. Fracture and Fracture Mechanics
- 9. Anisotropy of Strength
- 10. Environmental Degradation
- 11. Joining and Repair
- 12. Non-Destructive Evaluation
- Suggested Reading
- Index

There is a spiral-bound companion volume to this book which is an Instructors' Manual. It contains many problems (with answers), associated with the material presented in each of the chapters of the text, which are suitable for the teacher's use.

LOUIS H. SHARPE