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Books Received

COMPOUNDING MATERIALS FOR THE POLYMER INDUSTRIES—A Concise Guide to Polymers, Rubbers, Adhesives and Coatings. John S. Dick. Noyes Publications, Park Ridge, NJ, U.S.A., 1987, 288 pp. (US\$48.00).

The book contains 4 chapters covering the following subjects.

1 THE PLASTICS INDUSTRY

Markets, History, Manufacturing Process, Testing, Basic Principles, Compounding, Functional Uses, Thermoplastic Resins, Thermosetting Resins, Fillers and Reinforcements, Coupling Agents, Flame Retardants, Plasticizers, Lubricants, Heat Stabilizers, U. V. Stabilizers, Antioxidants, Curing Agents, Colorants, Impact Modifiers, New Directions.

2 THE RUBBER INDUSTRY

History, Manufacturing Process, Testing, Compounding, Elastomers, Curatives, Fillers and Reinforcing Agents, Softeners, Antidegradants, Tackifiers, Flame Retardants, Colorants, Blowing Agents, New Directions, Suggested Reading.

3 THE ADHESIVE INDUSTRY

Markets, History, Manufacturing Process, Basic Principles, Functional Uses, Reactive Type Base Polymers, Thermoplastic Type

Base Polymers, Elastomeric Base Polymers, Natural Base Polymers, Tackifiers, Solvents, Fillers, Plasticizers, Hardeners, Primers, Thickening Agents, New Directions, Suggested Reading.

4 THE COATINGS INDUSTRY

Markets, History, Manufacturing Process, Testing, Basic Principles, Formulating, Binders, Solvents, Pigments, Additives, New Directions, Suggested Reading.

There is an 8-page index.

INDUSTRIAL APPLICATIONS OF ADHESIVE BONDING, edited by M. M. Sadek. Elsevier Applied Science, London and New York, 1987, 244 pp. (UK £34.00).

The aim of the book is to, “. . . present recent developments in the use of adhesive bonding in structural fabrication throughout the world, as illustrations to successful application of this novel technique of fabrication.” It covers applications in the UK, Japan and North America.

The list of chapters, including their titles and their authors, follows.

1. Fabrication of Machine Tool Structures by Bonding. M. M. SADEK.
2. Fabrication of Carbide Tipped End Mills by Epoxy Resin Adhesive Bonding. M. M. SADEK.
3. Testing of Bonded Joints. R. D. ADAMS.
4. Adhesives in the Automotive Industry. E. D. LAWLEY.
5. Bonding Applications in the Japanese Machine Industry. O. SAKATA.
6. Industrial Adhesive Bonding in North America. GERALD SCHNEBERGER.
7. Adhesives for the Structural and Mechanical Engineer. W. A. LEES and T. R. BALDWIN.

There is a 12-page index.

ADHESION SCIENCE REVIEW 1—Proceedings of the 5th Annual Program Review/Workshop of The Virginia Tech Center for Adhesion Science, edited by Hal F. Brinson, James P. Wightman and Thomas C. Ward. The Virginia Tech Center for Adhesion Science, Blacksburg, Virginia, U.S.A., 319 pp. (US\$40.00).

The titles of the papers presented and their authors are given below.

Factors Affecting the Durability of Titanium-Epoxy Bonds. J. A. Filbey, J. P. Wightman.

A Nonlinear Constitutive Behavior for Diffusion in Polymers. D. Lefebvre, T. C. Ward, D. A. Dillard, H. F. Brinson.

NOVA: A Nonlinear Viscoelastic Analysis Program for Adhesive Joints. J. N. Reddy, S. Roy.

New Reactive Monomers and Oligomers for Solgel Polymerization Studies. K. S. Y. Lau, T. K. Dougherty.

Inorganic Adhesive Primers: Surface Treatment and Adhesive Composition Effects. R. A. Pike.

Some Free Volume Concepts of the Effects of Absorbed Moisture on Graphite-Epoxy Composite Laminates. M. J. Adamson.

Spectral Density Indication: A New Optical Method for Full Field Strain Analysis. C. P. Burger, F. Bremand, J. A. Smith.

Evaluation of Mode II Adhesion Tests. James K. Strozier, Kevin J. Ninow, K. L. DeVries, Garron P. Anderson.

Investigation of Acid-Base Interactions in Polymeric Adhesives. P. A. Konig, T. C. Ward.

Effect of Metal Particle Incorporation on Crosslinking Reactions and Properties of Acetylene-Terminated Polyisoimide Prepolymers. R. H. Bott, L. T. Taylor, T. C. Ward.

Bending of a Bonded Beam as a Test Method for Adhesive Properties. E. Moussiaux, A. H. Cardon, H. F. Brinson.

Measurement of In-Situ Adhesive Properties. J. W. Grant.

Determining the Constitutive and Fracture Properties of Structural Adhesives. K. M. Liechti, T. Freda, T. Hayashi.

Environmental Effects on the Strength of Ti-6Al-4V Adhesive Bonds. J. S. Ahearn, H. M. Clearfield, D. K. Shaffer, C. P. Blankenship, Jr.

Spectroscopic Characterization of Polymer Interphases. F. J. Boerio, D. J. Ondrus, R. G. Dillingham.

Thermoplastic Matrix Composite Processing Model. A. C. Loos, J. C. Howes, P. H. Dara.

Image Processing for Strain Measurement Under High Magnification. W. F. Ranson.

A High Resolution Technique for Determining Failure at Interfaces. David L. Davidson.

A New Method for Determining the Network Mechanical Properties of Curing Thermosets. Menas S. Vratsanos, R. J. Farris.

There is no index.