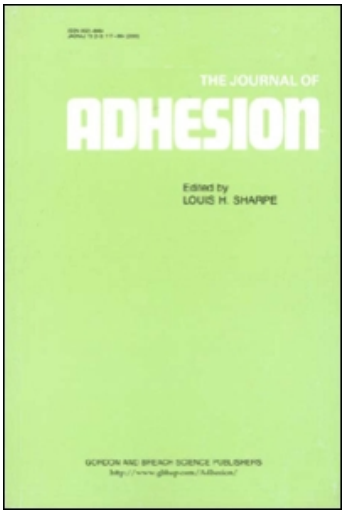

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Book Reviews

ADHESION 8, edited by K. W. Allen, Elsevier Applied Science Publishers, London and New York, 1984, 214 pp. ($64.75).

This book is based on the papers presented at the 21st Annual Conference on Adhesion and Adhesives, held in 1983 at The City University, London. Like previous volumes in the series, it covers a wide range of subjects, with particular emphasis on topics of industrial importance. The contents are as follows:

1. *Energy Adsorption and Strength of Adhesive Lap Joints under Impact Loading* (Harris and Adams). Instrumented impact data are interpreted in terms of the physical properties of the bulk adhesive.

2. *Effect of Adhesive Composition on the Peeling Behavior of Adhesive Tapes* (Aubrey). The rate dependence of the peeling force is correlated with molecular weight, Tg, cross-linking, etc.

3. *Adherence Between a Rigid Spherical Punch and an Elastomeric Solid* (Barquins). An approach combining fracture mechanics with classical mechanical analysis is used to interpret a variety of phenomena related to the tack and sliding friction of elastomers.

4. *Static and Dynamic Characteristics of Bonded Joints as Affected by Ageing and Environmental Conditions* (Khalil and Sadek). A study of the feasibility of using epoxy resin bonding to fabricate an industrial machine tool.

5. *Adhesion of Polyethylene: Physical and Chemical Aspects* (Delescluse, Schultz and Shanahan). A study of the adhesion between unfilled and carbon black filled polyethylene, used to insulate power cables, and the effect of peroxide treatment on adhesion.

6. *The Effect of Single Functional Groups on the Adhesion Characteristics of Polyethylene* (Chew, Brewis, Dahm and Briggs). Polyethylene surfaces were chemically derivatized, and the effect of various functional groups was compared by testing steel-epoxy resin butt joints with a treated polyethylene interlayer.

7. *Characteristics of Toughened Acrylate Adhesives Used with Aluminium Alloy Adherends* (Sammes, *et al.*). A systematic comparison of a number of formulations (not identified) for their potential utility in making rapid field repairs of aircraft components.

8. *Adhesive Bonding in the Automotive Industry* (Lawley). A very general survey of current practice, presumably limited to Great Britain, since no mention is made of other countries.

9. *Interfacial Properties of Ionomer Cements and their Effects on Mechanical Performance* (Hodd and Read). Data are presented to demonstrate the superior resistance of these systems (blends of polyacrylates and ion-leachable glasses) to hydro-thermal aging, compared to polyester or epoxy/glass composites.

10. *Adhesion to Gold* (Cognard and Boichard). A description of extensive wetting studies on gold surfaces, which lead to the conclusion that the dispersive surface energy is fairly low, but is accompanied by a polar component which is somehow related to acid-base effects; the adhesion to epoxy resins is discussed in this light.

11. *Adhesion Problems in Plywood Manufactured from Tropical Hardwood Species* (Wagner and Bain). A study of the differences between wood species which can affect plywood adhesion.

Two recent changes in this series must not be allowed to pass without comment. This volume was printed in a type face which was unnecessarily small, and the price has doubled since the preceding volume. Intending purchasers will have to decide for themselves whether the cost is justified for a collection of papers of this type.

GEORGE F. HARDY