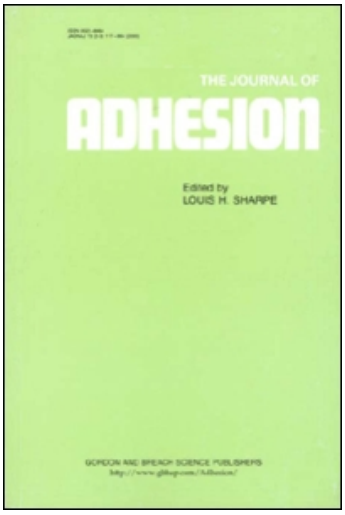

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Book Review

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Book Review

SURFACE AND COLLOID SCIENCE, Vol. II, edited by R. J. Good and R. R. Stromberg. Plenum Press, N.Y., 1979. U.S. $35.00.

This volume is the second edited by Good and Stromberg. The first was *Techniques of Surface and Colloid Chemistry* with R. L. Patrick as a co-editor, published by Marcel Dekker in 1972. The editors have become associated with Egon Matijevic and the intent is to produce a single series under Matijevic's title.

The principal concern of the volumes edited by Good and Stromberg is experimental methods including theoretical background on both phenomena and techniques. Papers are intended to cover potentialities and pitfalls and are to be critical.

The authors of Volume II adhere closely to the editors intent and present thorough coverage of the individual subjects.

The first three papers by Good; Neumann and Good; and Ambwani and Fort, provide an excellent and current treatment of surface energies, interfacial tensions, and their measurement. All three papers are well written, comprehensive, and include many references to pertinent work. Two minor criticisms are lack of some discussion of objections which have been made concerning Eq. (30) of the first paper, and the questionable relating of sedimentation volume to wetting in the second paper.

"Electrophoresis of Particles in Suspension" by James is also a very good exposition covering theory, methods, apparatus and applications. This paper complements the first three very nicely.

The paper on "Ultrahigh Vacuums and Ultralow Pressures" by Hobson provides a thorough and illuminating account of problems involved in attaining, maintaining, and measuring low pressures. Hobson also covers surface cleaning. Inferences drawn from this work are pertinent to sample preparation and proper interpretation of data obtained using many of the new methods for surface analysis.

Selecting any single paper from this volume for special kudos is difficult. Hutchins' paper on "Electron Probe Microanalysis", however, is perhaps the most thorough of all. Topics covered are too numerous to list. (The

publisher may have been similarly impressed since he provided duplicates of pages 277 to 282 in the volume reviewed.)

The seventh paper on "Research Techniques in Detergency" by Schwartz is concise, clear and like the others provides many references to current as well as earlier significant work.

This is a volume which will undoubtedly find its way onto the bookshelves of many interested in surface and colloid science.

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