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Carel J. van Oss

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BOOK REVIEW

ELECTRICAL PHENOMENA AT INTERFACES
(Fundamentals, Measurements and Applications)

A. Kitahara and A. Watanabe, Eds.

Marcel Dekker, New York, 1984;
hardbound, 463 pages, \$79.50

This graduate-level work is the updated expanded, English version of a Japanese textbook on Interfacial and Electrical Phenomena. The 18 chapters are grouped in three parts: I. Fundamentals: 1) Surface Electricity, 2) Electrical Double Layer, 3) Interaction of Electrical Double Layers and Colloid Stability, 4) Electrokinetics, 5) Nonaqueous Systems; II. Measurements: 6) Electrocapillary Measurements, 7) Electrokinetic Measurements, 8) Stability Measurement of Disperse Systems; III. Applications: 9) Detergency, 10) Flotation, 11) Fibers, 12) Paper, 13) Electrocapillary Emulsification, 14) Pigments and Paints, 15) Cosmetics, 16) Antirusting, 17) Electrokinetic Phenomena in Biological Systems, 18) Reproduction in Copying and Electrophoretic Display. The work ends with Author and Subject Indices; each chapter has its own extensive bibliography, usually up to date to 1980 and in exceptional cases containing items up to 1982.

This book is the 15th in a Surfactant Science Series (M.J. Schick & F.M. Fowkes, Eds.) and the first in that series on Fundamentals of Surface Volume Science, a useful and laudable enterprise indeed: we are looking forward to many more volumes of this type and quality. Most Occidental colloid and surface

scientists will find that many of the chapters are fascinating reading in their entirety: the scientists of the Japanese school are well versed in the fundamentals of the field, and in addition, they often present their own point of view in a refreshingly novel way that suddenly can lend new insight into old problems. This work is highly recommended to all colloid and surface scientists and should be judged indispensable to all graduate students in the field. This volume also is extremely useful to all chemists and chemical engineers involved in electrochemical and interfacial aspects of separations, e.g., ion exchange and other modes of liquid chromatography (HPLC and otherwise), as well as flotation, adsorption, electrophoresis, electrodialysis, etc.

Carel J. van Oss