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Book review

Chemically Modified Surfaces: Recent Developments, J.J. Pesek, M.T. Matyska and R.R. Abuelafiya (Editors); The Royal Society of Chemistry, Cambridge, UK, 1996; pp. X+146; price £49.50, ISBN 0 85404 780 8

This book contains 13 full papers and 11 brief summaries of contributions discussed at the 6th symposium on the title topic, which was held at San José State University in 1995. Contributions deal with various theoretical and practical aspects of (mainly) silica surfaces with several impacts in separation technology and catalytic problems.

Although the spectrum of individual presentations is rather diverse – covering catalytic sensor of NO_x, catalytic side-chain alkylation of aromatic compounds by modified zeolites, kinetics of the formation of intercalation compounds in crystalline graphite up to FTIR and NMR investigation of surface phenomena and/or creation of pores in bilayer membranes – there are several papers directly of interest to chromatographers.

Solid state NMR characterization of C₃₀ bonded interphases and their application in on-line HPLC and NMR separation chemistry of vitamin A acetate isomers (K. Albert, H. Händel, M. Pursch and S.

Strohschein); The progressive effect of surface silylation on the silanol population of silica (K.G. Proctor, S.K. Ramirez, K.L. McWilliams, J.L. Huerta and J.J. Kirkland); Horizontally polymerized chromatographic stationary phases (H.O. Fatunmbi and M.J. Wirth); Matrix solid phase dispersion (MSPD): Implication in the design and use of new bonded surface chemistries (S.A. Barker and Z.F. Floyd); Silica-based ion exchangers for selective metal ion preconcentration (G.N. Zaitseva, V.V. Strelko, O.P. Ryabushko and A. Brought); The importance of a surface Si₈-O-Si bond between alkylchlorosilanes and silica in defining the distribution of water on the surface (C.P. Tripp, R.P.N. Veregin, M.N.V. McDougall and D. Osmond); Regular topology NH₂ bonded phases (V.N. Zaitsev).

The Editors announce the preparation of a further symposium in 1997.

The book is produced by photoprinting so that the contributions written by different authors appear in various typefaces. A subject index facilitates orientation in each subtopic. Eleven of the 24 presentations are submitted only as brief summaries which diminishes the common value of the edited texts.

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