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Phase behavior of simple fluids confined in coordination nanospace / M. Miyahara, T. Kaneko. Equilibrium theory-based design of SMBs for a generalized Langmuir isotherm / M. Mazzotti. Non-equilibrium dynamic adsorption and desorption isotherms of CO₂ on a K-promoted HTlc / S.P. Reynolds, A.D. Ebner, J.A. Ritter. Optimisation of adsorptive storage: thermodynamic analysis and simulation / S. K. Bhatia, A.L. Myers -- pt. C. Application. Desulfurization of fuels by selective adsorption for ultra-clean fuels / Y.S. Bae, J.M. Kwon, C.H. Lee. Large scale CO separation by VPSA using CuCl/zeolite adsorbent / Y.C. Xie ... [et al.]. The ZLC method for diffusion measurements / S. Brandani. Chiral separation of propranolol hydrochloride by SMB process integrated with crystallization / X. Wang, Y. Liu, C.B. Ching.

Sommario/riassunto

Outlines the outlook for development in adsorption theories, kinetics, pressure swing adsorption, SMB, and nanoporous adsorbents. This book covers fundamental knowledge and methodologies for adsorption experiments and calculations regarding equilibria, heat effects, adsorbent structural modeling, diffusion measurement, and selectivity control.
