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pt. A. General. Adsorption kinetics: theory, applications and recent progress / D.M. Ruthven. Pressure swing adsorption technology for hydrogen purification-a status review / S. Sircar. New nanoporous adsorbents / A. Kondo ... [et al.]. Experimental methods for single and multi-component gas adsorption equilibrium processes / M. Bulow. Supercritical adsorption mechanism and its impact to application studies / L. Zhou ... [et al.] -- pt. B. Fundamental. Structural modeling of porous carbons using a hybrid reverse Monte Carlo method / S.K. Jain, R.J.M. Pellenq, K.E. Gubbins. Controlling selectivity via molecular assembling in confined spaces: alkanes-alkenes-aromatics in FAU zeolites / J.F. Denayer ... [et al.]. A new methodology in the use of super-critical adsorption data to determine the micropore size distribution / D.D. Do, H.D. Do, G. Birkett. Adsorption studies of cage-like and channel-like ordered mesoporous organosilicas with vinyl and mercaptopropyl surface groups / M. Jaroniec, R.M. Grudzien. Adsorption studies of SBA-15 mesoporous silica with ureidopropyl surface groups / B.E. Grabicka ... [et al.]. Effect of porosity and functionality of activated carbon in adsorption / F. Rodriguez-Reinoso. 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 CO<sub>2</sub> on a K-promoted HTIc / 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.