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New Proceedings

Proceedings of the Second Engineering Foundation Conference on Fundamentals of Adsorption

Athanasios I. Liapis, Editor

This conference was held in Santa Barbara, California on May 4-9, 1986, providing a forum for chemical engineers, chemists, biochemical engineers, biochemists and environmental engineers. The research papers presented here include coverage of: mixture equilibria; new experimental techniques for measuring adsorption equilibria; effects of pore structure; effects of surface heterogeneity; more realistic models for predicting the dynamic behavior of adsorbers; Monte Carlo computer simulations to unravel the complexities of intermolecular forces and analyze the phenomena of critical behavior and hysteresis in adsorption isotherms; statistical mechanical studies to understand adsorption of simple monatomic fluids on well defined surfaces; studies on dispersion interactions; and novel adsorbents and adsorption processes. In addition, the new field of biospecific adsorption (affinity chromatography) was considered in three presentations concerned with the design of adsorbents for biopolymer separation and the modeling and analysis of biospecific adsorption.

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