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Abstract. This paper provides a set of comprehensive guidelines for the use of dynamic column breakthrough experiments to measure single and multi-component equilibria and kinetics.

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To properly understand an adsorption process, we must understand these two basic ingredients: equilibria and kinetics, the analysis of which is the main theme of this book. 1.2 Basis of Separation The adsorption separation is based on three distinct mechanisms: steric, equilibrium, and kinetic mechanisms.

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