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ERRATUM

Gradient Hydroxyapatite Chromatography with Small Sample Loads. III. Fundamental Differential Equation for Gradient Chromatography

TSUTOMU KAWASAKI

[article in *Separation Science and Technology*, 16(7), 817-851 (1981)]

The second paragraph below the centered heading on page 819 should read:

For each component of the mixture the ratio $(R_F)_\lambda$ of the migration rate of molecules to the migration rate of the solvent in an elementary volume δV at any column position L' should be equal to the ratio B_λ of the amount of molecules existing in the interstitial liquid (i.e., the mobile phase) to the total amount in that elementary volume. This is a first principle of chromatography in the case of the quasi-static process (1, 3). B_λ and the mean value B of B_λ within the column section are both independent of the total amount of molecules in the column section if the amount of molecules is small because, in this situation, the linear section of the adsorption isotherm should be realized. With stepwise chromatography the migration of molecules on the column can, in fact, be described by using Eq. (1) (see Ref. 1, Appendix III).