

Packed-Bed Adsorption Theories and Their Applications to Affinity Chromatography

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Chromatographic method has long occupied together with other separation methods and has been a very important and one of the techniques for analytical, investigative as well as preparative purposes in areas such as chemistry, biology and engineering. The amount of knowledge of chromatographic methods during the past few years has grown so fast that it is now possible to tackle such tasks which were previously believed to be beyond the possibility of solution.

One outstanding example of such techniques is affinity chromatography. Affinity chromatography is a separation technique in which a substance is adsorbed onto an insoluble adsorbent through either a functional group or whole molecule immobilized on the adsorbent. This technique makes it possible to separate protein mixtures strictly on the basis of their ability to recognize and bind specific ligands. For separation is markedly different from the conventional methods which rely on differences in gross physical properties such as solubility and isoelectric point. For example, the binding of an enzyme and its substrate, substrate analogue, inhibitor or

in the field of separation science is a variety of new growth has provided numerous that

affinity Affinity adsorbed on particular in principle, components. This has been with proteins, molecular weight, between an