



# Liquid Chromatography: Chapter 3. Column Technology in Liquid Chromatography

*K.K. Unger, S. Lamotte, E. Machtejevas*

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This chapter deals with the most important part of the LC system: the column enabling the efficient and fast resolution of complex mixtures. It is divided into seven sections under the overall aspects of manufacture, operation, and evaluation of analytical columns for the user. The first three sections highlight the column design and hardware, followed by a thorough treatment of the properties of microparticulate silica adsorbents as packing material, stationary phases performed by surface functionalization, and the column filling process. Then, the implementation of the column into the LC system is discussed, leading into chromatographic column testing as a C18 bonded reversed silica column and its maintenance. Section 3.7 is devoted to today's column market, focusing on the three main types of silica columns: fully porous microparticulate silica columns, columns with core-shell silica particles, and monolithic silica columns. Within a period of 40 years, analytical HPLC has generated high-resolution, robust, and rugged reversed-phase silica columns, which enable efficient, highly sensitive, and fast separations of low-molecular-weight substances based on validated methods.

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