Choosing the right column is key in Gas Chromatography

Gas Chromatography (GC) is the most widely used method for separating and analyzing a wide variety of organic compounds and gases. There have been many recent advancements in both packed column and capillary column GC. With numerous options and considerations, selecting the right column can be complicated. This resource provides essential guidance for scientists and technicians, including:

- Methods of choosing both capillary and packed columns
- Selection of dimensions (column length, I.D., film thickness, etc.) and type of column
- Guidelines for proper connections of the column to the injector and detector
- United States Pharmacopeia and National Formulary chromatographic methods
- ASTM, EPA, NIOSH, and OSHA column selection specifications
- Information on the advantages of computer assistance in GC and multidimensional GC
- Comprehensive information on column oven temperature control
Columns for Gas Chromatography: Performance and Selection is a hands-on reference for scientists and technicians using GC.

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**ABOUT THE AUTHOR**

**Eugene F. Barry**, PHD, is Professor of Chemistry and Head of the Chemistry Department at the University of Massachusetts Lowell and a recipient of the school's Most Outstanding Teacher Award. He is coeditor of *Modern Practice of Gas Chromatography*, Fourth Edition (Wiley), the standard reference for the industry. Dr. Barry is author or coauthor of over 100 publications and has several patents.

The late **Robert L. Grob**, PHD, was Professor Emeritus of Analytical Chemistry at Villanova University and a consultant in analytical and environmental chemistry. He coauthored *Environmental Problem-Solving Using Gas and Liquid Chromatography* and authored *Chromatographic Analysis of the Environment*, now in its third edition. Dr. Grob published over 250 research publications and held one patent. He was the recipient of the Stephen Dal Nogare Award in Chromatography, the EAS Award in Separation Science, and numerous other awards.

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