Record Nr. UNINA9910966468803321 Autore Poole Colin F Titolo Gas chromatography / / Colin F. Poole Pubbl/distr/stampa Amsterdam;; Boston,: Elsevier, 2012 **ISBN** 9786613680785 9781280770012 1280770015 9780123855411 0123855411 Edizione [1st ed.] Descrizione fisica 1 online resource (753 p.) Disciplina 543/.85 543.85 Soggetti Gas chromatography Chromatographic analysis Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Front Cover; Gas Chromatography; Copyright; Contents; Contributors; Chapter 1 - Milestones in the Development of Gas Chromatography: 1.1.INTRODUCTION: 1.2.THE INVENTION OF GAS CHROMATOGRAPHY: 1.3. EARLY INSTRUMENTATION; 1.4. EARLY COLUMN DEVELOPMENTS; 1.5.INTERFACING GLASS CAPILLARY COLUMNS TO INJECTORS AND DETECTORS; 1.6.THE HINDELANG CONFERENCES AND THE FUSED-SILICA COLUMN; 1.7.INCREASING SOPHISTICATION OF INSTRUMENTATION: 1.8.DECLINE IN THE EXPERTISE OF THE AVERAGE GAS CHROMATOGRAPHER; References; Chapter 2 - Theory of Gas Chromatography; 2.1.INTRODUCTION 2.2.NOMENCLATURE AND OTHER CONVENTIONS 2.3.GENERAL DEFINITIONS; 2.4. SOLUTE-COLUMN INTERACTION; 2.5. PROPERTIES OF AN IDEAL GAS; 2.6.FLOW OF IDEAL GAS IN OPEN CIRCULAR TUBES; 2.7. MIGRATION AND ELUTION PARAMETERS OF THE SOLUTES: 2.8.PEAK

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This title provides comprehensive coverage of modern gas chromatography including theory, instrumentation, columns, and applications addressing the needs of advanced students and professional scientists in industry and government laboratories. Chapters are written by recognized experts on each topic. Each chapter offers a complete picture with respect to its topic so researchers can move straight to the information they need without reading through a lot of background information. Individual chapters written by recognized experts The big picture of gas chromatography