1. Record Nr. UNINA9910808543703321 Autore Ettre Leslie S Titolo Chapters in the evolution of chromatography / / Leslie S. Ettre; edited by John V. Hinshaw Pubbl/distr/stampa London, : Imperial College Press Singapore; ; Hackensack, NJ, : Distributed by World Scientific, c2008 **ISBN** 1-281-86771-3 9786611867713 1-86094-944-4 Edizione [1st ed.] Descrizione fisica 1 online resource (492 p.) Altri autori (Persone) HinshawJohn V Disciplina 543.8 Soggetti Chromatographic analysis - History Analytical chemistry Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Includes bibliographical references and index. Nota di bibliografia Nota di contenuto Contents; Preface; Acknowledgments; Introduction: One Hundred Years of Chromatography; Steps in the Evolution of Chromatography; References; Part One: THE PRECURSORS OF CHROMATOGRAPHY; 1. Chromatography in the Ancient World; 1.1. Was Moses The First Chromatographer?; 1.2. Did Pliny The Elder Use Planar Chromatography?; References; 2. Friedlieb Ferdinand Runge: "Self-Grown Pictures" as Precursors of Paper Chromatography; 2.1. Runge's Life and Activities; 2.2. Runge's Chemistry Textbooks; 2.3. Investigation of Dyes; 2.4. The Formation of Characteristic Patterns 2.5. Runge's Philosophy Concerning The "Self-Grown Pictures" 2.6. The "Od"; 2.7. Runge's "Self-Grown Pictures" and Chromatography; References; 3. Early Petroleum Chromatographers; 3.1. David T. Day; 3.2. Joseph E. Gilpin; 3.3. Carl Engler; 3.4. Other Scientists; 3.4.1. Leo Ubbelohde; 3.4.2. Russian Petroleum Chemists; 3.5. Controversy; 3.6. Chromatography and the Cold War; References; Part Two: M. S. TSWETT AND THE DISCOVERY OF CHROMATOGRAPHY; 4. M. S. Tswett, and the Invention of Chromatography Part I: Life and Early Work (1872-1903); 4.1. The Life of M. S. Tswett; 4.2. Early Investigations

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Sommario/riassunto

Chromatography, invented more than 100 years ago, is the most widely used separation technique in the world today. It has helped the birth of modern analytical instrumentation and continues to strongly influence the profiles of our chemical, biochemical and clinical laboratories. This book deals with the history of the invention and evolution of chromatography and of the various chromatographic techniques. After discussing the precursors, it elaborates on the activities of M.S. Tswett, the inventor of the technique, and of a few selected key pioneers. It then summarizes the evolution