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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Front matter -- Preface -- Hints and Suggestions for the Reader -- Content -- 1 Chemical Vapor Transport Reactions - an Introduction -- 2 Chemical Vapor Transport - Models -- 3 Chemical Vapor Transport of Elements -- 4 Chemical Vapor Transport of Metal Halides -- 5 Chemical Vapor Transport of Binary and Multinary Oxides -- 6 Chemical Vapor Transport of Oxido Compounds with Complex Anions -- 7 Chemical Vapor Transport of Sulfides, Selenides, and Tellurides -- 8 Chemical Vapor Transport of Chalcogenide Halides -- 9 Chemical Vapor Transport of Pnictides -- 10 Chemical Vapor Transport of Intermetallic Phases -- 11 Gas Species and their Stability -- 12 Thermodynamic Data -- 13 Modeling of Chemical Vapor Transport Experiments: the Computer Programs TRAGMIN and CVTRANS -- 14 Working Techniques -- 15 Selected Experiments for Practical Work on Chemical Vapor Transport Reactions -- 16 Appendix -- Index -- Plate Section
Sommario/riassunto	This comprehensive handbook covers the diverse aspects of chemical vapor transport reactions from basic research to important practical applications. The book begins with an overview of models for chemical

vapor transport reactions and then proceeds to treat the specific chemical transport reactions for the elements, halides, oxides, sulfides, selenides, tellurides, pnictides, among others. Aspects of transport from intermetallic phases, the stability of gas particles, thermodynamic data, modeling software and laboratory techniques are also covered. Selected experiments using chemical vapor tr
