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Nota di contenuto	Front matter -- Prologue -- Preface -- List of principal symbols -- Contents -- 1 Introduction -- 2 Chemical evolution -- 3 Climate, climate change and the climate system -- 4 Fundamentals of physico-chemistry in the climate system -- 5 Substances and chemical reactions in the climate system -- 6 Final remark -- Appendix -- References -- Author index -- Subject index
Sommario/riassunto	Climate change is one of the biggest challenges facing the modern world. The chemistry of the air within the framework of the climate system forms the main focus of this monograph. This problem-based approach to presenting global atmospheric processes begins with the chemical evolution of the climate system in order to evaluate the effects of changing air composition as well as possibilities for interference within these processes. Chemical interactions of the atmosphere with the biosphere and hydrosphere are treated in the sense of a multi-phase chemistry. From the perspective of a ""chemical