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7.3 Gas-phase chemistry of the stratosphere; 7.4 Aerosols and clouds in the stratosphere; 7.5 Heterogeneous chemistry of the stratosphere; 7.5 Heterogeneous chemistry of the stratosphere; 7.6 Future perturbations to the stratosphere; References; 8 AQUEOUS PHASE CHEMISTRY OF THE TROPOSPHERE; 8.1 The aqueous phase in the atmosphere; 8.2 Nonvolatile solutes; 8.3 Reactions and photochemistry; 8.4 Conclusions; References; 9 ATMOSPHERIC PARTICULATE MATTER; 9.1 Introduction; 9.2 Size distribution, composition, and concentration; 9.3 Aerosol sources; 9.4 Heterogeneous chemistry
9.5 Climate forcing

Sommario/riassunto

The alarming consequences of global climate change have highlighted the need to take urgent steps to combat the causes of air pollution. Hence, understanding the Earth's atmosphere is a vital component in Man's emerging quest for developing sustainable modes of behaviour in the 21st century. Written by a team of expert scientists, the Handbook of Atmospheric Science provides a broad and up-to-date account of our understanding of the natural processes that occur within the atmosphere. It examines how Man's activities have had a detrimental effect on the climate, and how mea
