



New Theories and Predictions on the Ozone Hole and Climate Change

Qing-Bin Lu

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This monograph reviews the establishment of new theories of the ozone hole and global climate change, two major scientific problems of global concern. It provides a comprehensive overview of the author's work including significant discoveries and pioneering contributions, such as the discovery of extremely effective dissociative electron transfer reactions of chlorofluorocarbons (CFCs) adsorbed on ice surfaces and its implications for atmospheric ozone depletion; the proposal of the cosmic-ray-driven electron-induced-reaction (CRE) theory for the ozone hole; the predictions of 11-year cyclic variations in polar ozone loss and stratospheric cooling; the discovery of the nearly perfect linear correlation between CFCs and global surface temperature; the proposal of the CFC theory for modern global warming; the discovery of greenhouse-gas-specific climate sensitivity and the parameter-free calculation of global surface temperature change caused by CFCs; the prediction of global cooling; and so on.

Unlike conventional atmospheric and climate models, the author's theoretical models were established on robust observed data rather than computer simulations with multiple parameters. The new theories have shown the best agreements with the observed data within 10% uncertainties. This book highlights the scientific understandings of the world-concerned problems from the unique point of view of a physicist who seeks theories with great simplicity and superior predictive capacity.

This book is self-contained and unified in presentation. It may be used as an advanced book by graduate students and even ambitious undergraduates in physics, chemistry, environmental and climate sciences. It is also suitable for non-expert readers and policy makers who wish to have an overview of the sciences behind atmospheric ozone depletion and global climate change.

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