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DIAZ MIDDLETON

**INTRODUCTION TO
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CHEMISTRY - NASA/ADS

Introduction To Atmospheric Chemistry
 MEASURES OF ATMOSPHERIC COMPOSITION 1. 1.1 MIXING RATIO 1. 1.2 NUMBER DENSITY 2. 1.3 PARTIAL PRESSURE 6. PROBLEMS 10. 1.1 Fog formation 10. 1.2 Phase partitioning of water in cloud 10. 1.3 The ozone layer 10. 2 ATMOSPHERIC PRESSURE 12. 2.1 MEASURING ATMOSPHERIC PRESSURE 12. 2.2 MASS OF THE ATMOSPHERE 13. 2.3 VERTICAL PROFILES OF PRESSURE AND TEMPERATURE
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Hobbs Introduction to Atmospheric Chemistry (Princeton University Press, 1999). They are arranged following the different chapters of the book. In recent years I have added to my course lectures a chapter 14, 'Aerosol Chemistry' and a chapter 15, 'Mercury in the Environment'. I have included here problems to support these chapters. INTRODUCTION TO ATMOSPHERIC CHEMISTRY Introduction to Atmospheric Chemistry is a concise, clear review of the fundamental aspects of atmospheric chemistry. In ten succinct chapters, it reviews our basic understanding of the chemistry of the Earth's atmosphere and discusses current environmental issues, including air pollution, acid rain, the ozone hole, and global change. Introduction to Atmospheric Chemistry by Peter V. Hobbs Importance of Atmospheric Chemistry

- Atmosphere is very thin and fragile! – Earth diameter = 12,740 km – Earth mass ~ 6×10^{24} kg – Atmospheric mass ~ 5.1×10^{18} kg – 99% of atmospheric mass below ~ 50 km – Solve in class: order of magnitude of mass of the oceans? Mass of entire human population? Lecture 1:

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Chemistry is a
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Jacob ...

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Based on the approach he
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Harvard, Jacob introduces
students in clear and
concise chapters to the
fundamentals as well as
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