

## Chapter 17 The Atmosphere: Structure and Temperature

**Section 17.1 Atmosphere Characteristics**

This section describes the components and vertical structure of the atmosphere. It also explains how the relationship between Earth and the sun causes the seasons.

**Reading Strategy**

**Comparing and Contrasting** As you read, complete the Venn diagram by comparing and contrasting summer and winter solstices. For more information on this Reading Strategy, see the **Reading and Study Skills** in the **Skills and Reference Handbook** at the end of your textbook.



1. ☞ \_\_\_\_\_ is the state of the atmosphere at any given time and place.

**Composition of the Atmosphere**

2. Circle the letter of the gas that is the largest component of the atmosphere.

a. oxygen                      b. nitrogen  
c. water vapor              d. carbon dioxide

3. ☞ Is the following sentence true or false? The source of all clouds and precipitation is water vapor. \_\_\_\_\_

4. ☞ Why is the ozone layer crucial to life on Earth? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Height and Structure of the Atmosphere**

5. Is the following sentence true or false? Atmospheric pressure increases with height. \_\_\_\_\_

# Answers Section 17 1 Atmosphere Characteristics

**Victor M. Corman**



## **Answers Section 17 1 Atmosphere Characteristics:**

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Thibodeaux, Donald Mackay, 2010-10-21 A comprehensive account of the state of the science of environmental mass transport. Edited by Louis J. Thibodeaux and Donald Mackay, renowned experts in this field, the *Handbook of Chemical Mass Transport in the Environment* covers those processes which are critically important for assessing chemical fate, exposure, and risk. In a comprehensive and authoritative format, this unique handbook provides environmental chemists, geoscientists, engineers, and modelers with the essential capabilities to understand and quantify transport. In addition, it offers a one-stop resource on environmental mass transfer and mass transport coefficient estimation methods for all genres. The book begins by discussing mass transport fundamentals from an environmental perspective. It introduces the concept of mobility, key to environmental fate, since transport must occur prior to any reaction or partitioning within the natural multimedia compartments. The fugacity approach to environmental mass transfer and the conventional approach are examined. This is followed by a description of the individual mass transport processes and the appropriate flux equations required for a quantitative expression. The editors have identified 41 individual processes believed to be the most environmentally significant, which form the basis for the remainder of the book. Using a consistent format for easy reference, each chapter introduces the specific processes, provides a detailed qualitative description, presents key theoretical mathematical formulations, describes field or laboratory measurements of transport parameters, gives data tables and algorithms for numerical estimates, offers a guide for users familiar with the process who are seeking a direct pathway to obtain the numerical coefficients, presents computed example problems, case studies, and/or exercises with worked-through solutions and answers. The final chapter presents the editors' insight into future needs and emerging priorities. Accessible and relevant to a broad range of science and engineering users, this volume captures the state of the transport science and practice in this critical area. **Moving Picture World**

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life wherever it might exist in the Universe The current view of the origin of life on Earth is that it is strongly connected to the origin and evolution of our planet and indeed of the Universe as a whole We are fortunate to be living in an era where centuries of speculation about the two ancient and fundamental problems the origin of life and its prevalence in the Universe are being replaced by experimental science The subject of Astrobiology can be approached from many different perspectives This book is focused on abiogenic organic matter from the viewpoint of astronomy and planetary science and considers its potential relevance to the origins of life on Earth and elsewhere Guided by the review papers in this book the concluding chapter aims to identify key questions to motivate future research and stimulate astrobiological applications of current and future research facilities and space missions Today s rich array of new spacecraft telescopes and dedicated scientists promises a steady flow of discoveries and insights that will ultimately lead us to the answers we seek Human

Characteristics Preben Bertelsen, Henrik Høgh-Olesen, Jan Tønnesvang, 2009-01-23 Every once in a while we have to reconsider the perennial questions concerning human nature What are the special human behaviours social practices and psychological structures that make us particularly human The field of evolution psychology and cognitive science is the most expanding inter disciplinary area of this field for the time being uniting different sciences under the same evolutionary paradigm and keeping them occupied by the same eternal questions stated above Relevant data and theoretical considerations are piling up but an overview is needed To facilitate this a large inter disciplinary conference entitled Human Mind Human Kind was held at Aarhus University Denmark The studies fall into three well defined sections 1 Evolution and Cognition Comparative and Developmental Perspectives 2 Human Sociality Morality and Religiosity 3 Human Sexuality and Mating Strategies Specifying the differences between our own species and the rest of the animal world always provokes debate But these demarcations simply have to be drawn once and again They focus attention and stimulate research exactly because they provoke and challenge other researchers to take up the glove and prove us wrong **Middle Atmosphere**

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