

# Lecture 1: Introduction to Atmospheric Chemistry

*Required Reading: FP Chapter 1 & 2*  
*Additional Reading: SP Chapter 1 & 2*

Atmospheric Chemistry  
CHEM-5151 / ATOC-5151  
Spring 2005  
Prof. Jose-Luis Jimenez

## Outline of Lecture 1

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- Importance of atmospheric chemistry
- Atmospheric composition: big picture, units
- Atmospheric structure
  - Pressure profile
  - Temperature profile
  - Spatial and temporal scales
- Air Pollution:
  - historical origin: AP deaths
  - Overview of problems: smog, acid rain, stratospheric O<sub>3</sub>, climate change, indoor pollution
    - Continue in Lecture 2

# Introduction To Atmospheric Chemistry Assets

**JE Gale**



## **Introduction To Atmospheric Chemistry Assets:**

**Introduction to Atmospheric Chemistry** Peter V. Hobbs, 2000-09-25 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 Written by a well known atmospheric science teacher researcher and author of several established textbooks this book is an introductory textbook for beginning university courses in atmospheric chemistry Also suitable for self instruction numerous exercises and solutions make this textbook accessible to students covering atmospheric chemistry as a part of courses in atmospheric science meteorology environmental science geophysics and chemistry Together with its companion volume Basic Physical Chemistry for the Atmospheric Sciences second edition 2000 Cambridge University Press Introduction to Atmospheric Chemistry provides a solid introduction to atmospheric chemistry

**Introduction to Atmospheric Chemistry** Daniel J. Jacob, 1999 Atmospheric chemistry is one of the fastest growing fields in the earth sciences Until now however there has been no book designed to help students capture the essence of the subject in a brief course of study Daniel Jacob a leading researcher and teacher in the field addresses that problem by presenting the first textbook on atmospheric chemistry for a one semester course Based on the approach he developed in his class at Harvard Jacob introduces students in clear and concise chapters to the fundamentals as well as the latest ideas and findings in the field Jacob s aim is to show students how to use basic principles of physics and chemistry to describe a complex system such as the atmosphere He also seeks to give students an overview of the current state of research and the work that led to this point Jacob begins with atmospheric structure design of simple models atmospheric transport and the continuity equation and continues with geochemical cycles the greenhouse effect aerosols stratospheric ozone the oxidizing power of the atmosphere smog and acid rain Each chapter concludes with a problem set based on recent scientific literature This is a novel approach to problem set writing and one that successfully introduces students to the prevailing issues This is a major contribution to a growing area of study and will be welcomed enthusiastically by students and teachers alike

**Introduction to Atmospheric Chemistry** ,1910 Climate Vulnerability, Volume 1 ,2013-06-14 Climate Vulnerability Volume 1 Compendium of Training Facilities for Meteorology and Operational Hydrology ,1996 **The First Global Integrated Marine Assessment** United Nations, 2017-04-17 The World Ocean Assessment or to give its full title The First Global Integrated Marine Assessment is the outcome of the first cycle of the United Nations Regular Process for Global Reporting and Assessment of the State of the Marine Environment including Socioeconomic Aspects The Assessment provides vital scientifically grounded bases for the consideration of ocean issues including climate change by governments intergovernmental agencies non governmental agencies and all other stakeholders and policymakers involved in ocean affairs Together with future assessments and related initiatives it will support the implementation of the recently adopted 2030

Agenda for Sustainable Development particularly its ocean related goals Moreover it will also form an important reference text for marine science courses Statistical Programs of the United States Government ,2005 **Examining Energy and the Environment around the World** Bruce E. Johansen,2019-04-01 This volume addresses ten issues pertaining to energy and the environment such as climate change fossil fuels endangered species and renewable energy and examines how these issues are affecting countries around the world In the industrial age first powered by coal and then more often by oil environmental degradation nearly inevitably followed resource exploitation and energy production This book examines environmental issues in specific countries around the world as well as solutions some of these countries have discovered in order to help save the environment This volume includes 10 chapters each addressing a specific issue relating to energy and the environment as it pertains to a variety of countries including toxic chemicals pollution deforestation and climate change Each chapter begins with an introduction to the issue Following the chapter introduction each chapter highlights that issue in eight countries and provides historic perspective This work provides an overview for high school students and college students at the undergraduate level on 10 important topics that address matters relating to energy and the environment in the 21st century Spectroscopic Atmospheric Environmental Monitoring Techniques Klaus Schäfer,1998 This collection of papers from the EOS SPIE Remote Sensing Symposium includes articles on a variety of relevant issues and topics

**American Book Publishing Record** R.R. Bowker Company,1978 Bulletin of the American Meteorological Society American Meteorological Society,1964 List of members in v 1 8 etc Chemistry of Atmospheres Richard Peer Wayne,1985 Linking atmospheric chemistry with the traditional natural sciences this book places in context the advances and problems in atmospheric science Introduction to Atmospheric Chemistry a Companion Text to Basic Physical Chemistry for the Atmospheric Sciences Peter Victor Hobbs,2000 **Courses Catalog - University of Illinois at Urbana-Champaign** University of Illinois at Urbana-Champaign,2000 Includes undergraduate and graduate courses The Journal of Industrial and Engineering Chemistry ,1912 Controlling Air Pollution in China Therese Feng,1999 Rapid economic growth in China has been fueled by and continues to stimulate a huge demand for power posing significant challenges to local regional and international atmospheric environments This timely book assesses this environmental risk and considers the efficient design of environmental policy in the development of new coal fired plants in China Coal fired electricity generation currently accounts for about 80 per cent of China s power sector and so it is vital to establish how new plants can be designed to minimize the harmful environmental effects of this type of power generation In designing pollution control policies in China there is a need to identify appropriate policies for a fast developing economy where incomes attitudes and technology are also rapidly evolving Therese Feng explores the use of societal values in developing environmental policies and presents an integrated assessment which carefully characterizes the nature and value of environmental damage using the model of a new coal fired power plant Finally the author defines an environmental policy which is sensitive to local variables and

transboundary effects Controlling Air Pollution in China will be of interest to energy and environmental economists and policymakers *Journal of Industrial and Engineering Chemistry*, 1992 *Chemistry International*, 1993 Proceedings of the ... International Symposium on Remote Sensing of Environment, 2009 **Sea Technology**, 1990-07

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features sizes 4 ½ 16 enhanced internal flow low hoop stresses on coupling thanks to tighter thread tolerances 20 bevel for

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the floating collar and shoes are available in different api certificated thread connections including short round thread stc long round thread ltc and buttress thread btc connection strength and tightness are two main coupling technical indicators

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api buttress btc connections are available in pipe sizes 4 1 2 through 20 figure 1 2 btc connections larger than 13 3 8 od can be subject to cross threading extreme care in the field can ensure the proper make up of the larger sizes the shear resistant large thread cross section and easy running characteristics of btc make it

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dec 1 2017 this specification covers dimensions tolerances and marking requirements for api threads and the gauges that control the acceptance criteria for the threads thread element gauges instruments and requirements for the inspection of threads for line pipe round thread casing round thread tubing and buttress casing connections are included

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the btc thread has higher joint and bending strengths than ltc or stc as a result this thread is often used in deeper wells where higher hook loads are experienced thread compound must also be used to obtain a seal with btc btc is also run in horizontal wells where doglegs can cause high bending loads on larger casings

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1 to avoid cross threading stab pipe in a smooth controlled fashion ensuring the pipe is vertical when doing so continue to support and stabilise the pipe throughout the stabbing and make up operation 2 upon commencement of initial rotation use low rpm 5 rpm or below in order to ensure the pipe has not cross threaded during stabbing 3

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btc has a square thread with a flat root and crest a runout design and five buttress threads per inch each thread type is suited for a specific well condition stc is a good choice for shorter length casing applications that do not involve high axial

loads or bending

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the two steps are identified as 1 the 75 percent shoulder width method 2 the mismatched outside diameter method the two methods are fully described in annex i 6 2 3 other considerations table 3 table a 3 have bevel diameters that cover a range from a suggested minimum od to a maximum od the tables also contain a reference id

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api compatibility the connection s buttress thread profile makes it fully compatible with standard api buttress connections by being api compatible in both pin and box operators can use standard api accessories and draw on a wide range of threading and repair shops providing flexibility and efficiency

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oil threads vertical api thread form pitch tpi l i c in taper ipf external ordering code y t connection no or size v 0 040 5 27 5 8 3 tnmb 54 er 5 api 403 2 5 6 4 2 3 8 4 1 2 reg v 0 038r 4 27 5 8 2 tnmc 55 er 4 api 382 2 8 7 94 nc23 nc50 v 0 038r 4 27 5 8 3 tnmc 55 er 4 api 383 2 8 7 94 nc56 nc77 v 0 050 4 27 5 8 2 tnmc 55 er 4 api 502 3

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casing pipe dimensions and weight chart for api round thread and buttress thread lables outside diameter nominal linear mass t c wall thickness inside diameter drift diameter calculated mass c plain end mass gain or loss due to end finishing lb round thread buttress thread 1 2 00 d in lb ft t in d in in lb ft short long rc scc

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inspection inspection criteria for all api connections is as outlined in api rp 5a5 ensure the complete thread area has no tears gouges or raised metal black crested threads within the complete thread area must not exceed 25 of the circumference of two 2 threads complete thread length is indicated in api rp 5b1

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btc buttress threading this thread is designed to improve axial tensile or axial compressive load capacity and to provide leakage resistance ltc stc and btc are the same in appearance how to distinguish them that depends the outside diameter and application what s the use of ltc stc and btc

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api couplings and threads must comply with c 32 and c 33 or e 32 and e 33 below are two common api coupling dimensions

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