

COURSE TITLE:

THE CHEMISTRY OF TROPOSPHERE AND STRATOSPHERE

COURSE DESCRIPTION:

Introduction of the chemical composition of the atmosphere; presentation of the properties, transformations and atmospheric roles of the major atmospheric components (gases and aerosol particles). Atmospheric budget of sulfur, nitrogen and carbon compounds. Formation of ozone and the composition of precipitation water.

LITERATURE:

Lagzi István, Mészáros Róbert: Air chemistry.

<http://elte.prompt.hu/sites/default/files/tananyagok/AtmosphericChemistry/book.pdf>

Mészáros Ernő: Fundamentals of atmospheric aerosol chemistry. Akadémiai Kiadó, Budapest, 1999.

Seinfeld, John H., Pandis, Spyros N.: Atmospheric chemistry and physics. From air pollution to climate change. John Wiley & Sons, Inc., New York - Chichester - Weinheim - Brisbane - Singapore - Toronto, 1998.

R.P. Wayne, R.P.: Chemistry of atmospheres, 3rd Edition, Oxford Univ. Press, 2000

Jacob, D. J.: Introduction to atmospheric chemistry, Princeton University Press, 1999

TEACHER:

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