Atmospheric And Oceanic Fluid Dynamics: Fundamentals And Large-Scale Circulation Books Pdf File

ATM S 60 Atmospheric Dynamics of Maritime Boundary Layers (3)Modeling of atmospheric motions over a developing frontal boundary layer, boundary layer exchange of mass, momentum, and energy, drag reduction, and the transformation of the circulation between interior and exterior environments. Prerequisite: ATM S 542 View course details in MyPlan: ATM S 60 ATM S 562 Introduction to Meridional Circulation (3)Review of leading theories of large-scale circulation, especially circulation modes of the northern and southern hemispheres. Why is the Earth's surface not stationary? Models of circulation with a vertical component, expressed in terms of equations of motion. Concept of uniform mean flow, concept of forcing by the oceans, and the use of spectral theories of large-scale circulation to model. Prerequisite: ATM 542. Offered: Summer This course introduces the dynamics of the ocean and atmosphere in a physical sense. Among the topics covered are ocean currents and dynamics, the thermodynamic properties of water and its interactions with air, the dynamics of the atmosphere including atmospheric pressure and its effect on weather, sea level, tidal forces, wind and wave, and climate dynamics. Loadline and tonnage regulations, trim and stability books and industry software are studied. Emphasis is placed on application of the theory as related to ship systems and tanks. This course provides an overview of atmospheric and oceanic physics, and the role these physical processes play in the global carbon cycle and climate. Topics include: the factors controlling carbon dioxide and methane concentrations in the atmosphere; climatic influence of changing carbon cycle processes; geographical variations in circulation patterns; and the role of ocean dynamics and sea ice in the global carbon cycle. Students complete a research paper on an aspect of carbon cycle-climate interactions. The course is divided into two parts: basic courses in atmospheric and oceanic physics. Prerequisite: ATM S 545/OCEAN 545.

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ATM S 367 Special Topics in Ocean Fluid

Dynamics (3)Finite element method, oceanfront boundary-layer flows, large-scale circulation, physical and numerical oceanography, wave forecasting, coastal circulation, and coastal geomorphology. Prerequisite: ATM S

509/OCEAN 512 or permission of instructor. Offered: A. View course details in MyPlan: ATM S 367 ATM S 500 An Introduction to Atmospheric Physics (3)A first-year course in atmospheric physics and gas dynamics for physics majors. Important

connections between atmospheric physics and weather and climate. Prerequisite: ELECTR 501 (physics), or STATUS 3100 and 3101 (fall semester, previous year); or permission of instructor. Offered: jointly with OCEAN 520/ECOL 503/OCCL 503/ATM S 510/ECOL

509 and ATM S 510/ECOL 509. ATM S 530 Introduction to Atmospheric Chemistry (3)A first-year course in atmospheric chemistry for physics majors. Theory of the major atmospheric gases; chemical kinetics in the atmosphere;

atmospheric hydrology and tropospheric chemistry; thermodynamics of the atmosphere; secondary atmospheric chemical processes. Prerequisite: ELEC 501 (physics) or permission of instructor; or ELECTR

501 (physics), or STATUS 3100 and 3101 (fall semester, previous year); or permission of instructor. Offered: jointly with OCEAN 522/ATM S 522; OCEAN 522/ECOL 522 and ECOL 522/ATM S 522. ATM S 530+ Chemistry of the Atmosphere

(3)Introduction to atmospheric chemistry and its applications. Atmospheric chemistry, the atmosphere and the Earth's biosphere; major atmospheric gases and their chemical kinetics; chemical reactions in the atmosphere;

atmospheric hydrology and tropospheric chemistry; thermodynamics of the atmosphere; secondary atmospheric chemical processes. Prerequisite: ELEC 501 (physics) or permission of instructor; or ELECTR

501 (physics), or STATUS 3100 and 3101 (fall semester, previous year); or permission of instructor. Offered: jointly with ECOL 522/ATM S 522 and ECOL 522/ATM S 522. 5ec8ef588b

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