

Class Notes:

- What are the energetic needs of organisms?
- How do organisms interact in ways that meet their energy needs, including predator-prey interactions, trophic levels, and food webs?
- How do these interactions, especially changes in populations of keystone species, influence the structure and function of ecological communities?
- Producers bring energy into an ecosystem through photosynthesis; consumers acquire energy from producers; smaller, sessile consumers get eaten by larger, mobile consumers
- Primary producers → Primary Consumers → Secondary Consumers → Tertiary Consumers
- Only ~10% of energy is transferred up each step of the pyramid **because of the 2nd law of thermodynamics (entropy)**
 - Energy is lost as waste, heat, and living (cellular respiration)
- Regulators- keep internal environment constant
 - Regulate inside of the body when the outside changes
 - Maintain optimal internal conditions- Homeostasis, which is a negative feedback loop
 - Advantages- can go outside all the time
- Conformers- let internal environment match external environment
 - Advantages- use less energy
- Endotherms- maintain internal body temperature through metabolism (**metabolically**)
 - Endotherms eat food (reduced carbon), metabolize reduced carbon by oxidizing it (again), protons move across membranes into the mitochondria
 - Chemical energy → movement energy
- Ectotherms- body temperature is controlled by environment or behavior, not metabolism
- Smaller organisms require less energy
- Ectotherms has a larger change in metabolic rate per fold change in mass than endotherms because **larger animals have proportionately less surface area so they lose proportionately less heat, so they lose less energy**
- Aquatic carnivores require higher absolute amount of energy than terrestrial carnivores because they live in the water which is colder than land because it has a **higher specific heat** (meaning it takes more energy to heat up water than air)
- Size, basal metabolic rate, and surroundings all influence the energetic needs of organisms

Unit 2 Energetic Earth

Ian D. Jones, John P. Smol



Unit 2 Energetic Earth:

Thermodynamics and Ecological Modelling Sven E. Jorgensen, 2018-10-03 Thermodynamics is used increasingly in ecology to understand the system properties of ecosystems because it is a basic science that describes energy transformation from a holistic view. In the last decade many contributions to ecosystem theory based on thermodynamics have been published therefore an important step toward integrating these theories and encouraging a more wide spread use of them is to present them in one volume. An ecosystem consists of interdependent living organisms that are also interdependent with their environment all of which are involved in a constant transfer of energy and mass within a general state of equilibrium or disequilibrium. Thermodynamics can quantify exactly how organized or disorganized a system is an extremely useful to know when trying to understand how a dynamic ecosystem is behaving. A part of the Environmental and Ecological Math Modeling series. Thermodynamics and Ecology is a book length study the first of its kind of the current thinking on how an ecosystem can be explained and predicted in terms of its thermodynamical behavior. After the introductory chapters on the fundamentals of thermodynamics the book explains how thermodynamic theory can be specifically applied to the measurement of an ecosystem including the assessment of its state of entropy and enthalpy. Additionally it will show economists how to put these theories to use when trying to quantify the movement of goods and services through another type of complex living system a human society.

Energy at the surface of the earth : an introduction to the energetics of ecosystems Miller, 1981-06-19 Energy at the surface of the earth an introduction to the energetics of ecosystems

The Earth's Atmosphere Kshudiram Saha, 2008-05-14 The author has sought to incorporate in the book some of the fundamental concepts and principles of the physics and dynamics of the atmosphere a knowledge and understanding of which should help an average student of science to comprehend some of the great complexities of the earth atmosphere system in which a two way interaction between the atmosphere the land and the ocean tends to maintain an overall mass and energy balance in the system through physical and dynamical processes. The book divided into two parts and consisting of 19 chapters introduces only those aspects of the subject that according to the author are deemed essential to meet the objective in view. The emphasis is more on clarity and understanding of physical and dynamical principles than on details of complex theories and mathematics. Attempt is made to treat each subject from first principles and trace its development to present state as far as possible. However a knowledge of basic calculus and differential equations is sine qua non especially for some of the chapters which appear later in the book.

Energy at the Surface of the Earth David H. Miller, 2016-06-03 Energy at the Surface of the Earth An Introduction to the Energetics of Ecosystems presents way of looking at the manner in which the biological physical and cultural systems that mantle the landmasses of our planet receive transform and give off energy which is an essential condition of existence that takes many forms. Energy conversions establish the climate in which these systems operate. The principal forms of energy that are converted at the ecosystem scale

include radiant latent mechanical chemical and fossil and thermal The book begins with radiant energy absorbed by ecosystems a phenomenon that is independent of their surface temperature and that can be looked on as a burden or a gift depending on circumstances An increase in such absorption raises surface temperature as described in the fulcrum chapter of the book Chapter VIII This increase in turn sets into action outflows of energy that by the first law of thermodynamics are equal in energy units although not necessarily equal in quality to the inflows The final chapters deal with vertical stratification and areal contrasts in energy budgets the augmented energy budget of the city and the responses that serve to keep the budget balanced

Wetzel's Limnology Ian D. Jones, John P. Smol, 2023-09-16 Wetzel's Limnology Lake and River Ecosystems Fourth Edition presents a fully updated revision of the classic textbook Limnology Lake and River Ecosystems last published in 2001 The coverage has been thoroughly updated with recent research and theoretical developments Each chapter of this edited volume has been written by an expert or team of experts providing a comprehensive and global perspective with the editors working closely with the authors to maintain continuity within and between the chapters This is not only an essential textbook for undergraduate and graduate students in limnology but also a standard reference book for seasoned limnologists and other scientists Chapters from the third edition have been updated by an international team of experts incorporating developments from the past two decades Several new chapters have been added reflecting exciting developments in the field of limnology New color illustrations and images throughout Detailed summaries at the end of each chapter

Chemistry in the Community (Enhanced Core Four) American Chemical Society, 2006-02-15 Chemistry in the Community (ChemCom) American Chemical Society, 2011-06-17 Touted as the most successful NSF funded project published Chemistry in the Community ChemCom by the American Chemical Society ACS offers a meaningful and memorable chemistry program for all levels of high school students ChemCom covers traditional chemistry topics within the context of societal issues and real world scenarios Centered on decision making activities where students are responsible for generating data in an investigating analyzing that data and then applying their chemistry knowledge to solve the presented problem The text is intensively laboratory based with all 39 of the investigations integrated within the text not separate from the reading With the ChemCom program students learn more organic and biochemistry more environmental and industrial chemistry and more on the particulate nature of matter than other textbooks all within the relevance of solving problems that arise in everyday life Meticulously updated to meet the needs of today's teachers and students the new sixth edition of ChemCom adheres to the new science framework as well as the forthcoming next generation of science standards Incorporating advances in learning and cognitive sciences ChemCom's wide ranging coverage builds upon the concepts and principles found in the National Science Education Standards Correlations are available showing how closely aligned ChemCom is to these and other state standards

Near-earth Electromagnetic Environment and Natural Hazards Disturbances Zeren Zhima, Angelo De Santis, Mirko Piersanti, Xuhui Shen, Chao Xiong, Lin Jian, 2024-06-06 Natural hazards

such as earthquakes volcanic eruptions and tsunamis have threatened human communities throughout recorded history Scientists still face a long term challenge to reveal the natural hazards preparation process and precisely predict their occurrences With space technology development in the early 1980s some satellites recorded abnormal electromagnetic emissions plasma density irregularities and energetic particle precipitations over active seismic fault zones volcanic belts or tsunamis coast Since then continuous efforts have been paid to the rock rupture processing experiment ground space comparative studies Especially for earthquake science the electromagnetic precursors might be the most promising tool for the short term timescale of hours days and weeks earthquake prediction In late 2004 France launched the DEMETER Detection of Electromagnetic EM Emissions Transmitted from Earthquake Regions satellite which successfully operated from 2004 to 2010 In Febr 2018 China launched the first seismo electromagnetism satellite China Seismo Electromagnetic Satellite CSES aimed for earthquake monitoring from space

Energy Education Materials Inventory: August 1979
University of Houston. Energy Institute,1978

Environmental Geography Mr. Rohit Manglik,2023-11-23 Examines interactions between humans and the environment focusing on land degradation pollution conservation and sustainable development from a spatial perspective

Planet Earth Cesare Emiliani,1992-08-28 This book explains why we have such a vast array of environments across the cosmos and on our own planet and also a stunning diversity of plant and animal life on earth

Observation of the Earth and Its Environment Herbert J. Kramer,2019-01-30 This book is about spaceborne missions and instruments In addition surveys of airborne missions and of campaigns can be found on the accompanying CD ROM in pdf format Compared with the 3rd edition the spaceborne part grew from about 300 to 1000 pages The complete text including the electronic only chapters contains more than 1900 pages New chapters treat the history of Earth observation and university missions The number of commercial Earth imaging missions has grown significantly A chapter contains reference data and definitions Extensive appendices provide a comprehensive glossary acronyms and abbreviations and an index of sensors An effort has been made to present the information in context to point out relationships and interconnections The book may serve as a reference and guide to all involved in the various national and international space programs researchers and managers service providers and data users teachers and students

Geospatial Technology and Remote Sensing Mr. Rohit Manglik,2024-07-28 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

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New Perspectives on the

Earth's Magnetotail A. Nishida, S. W. H. Cowley, 1998-02-04 On the nightside of the Earth a long magnetic tail is formed by the tangential stress that is exerted by the solar wind as it flows by the planet The magnetotail is the nightside extension of the Earth's magnetosphere in which the geomagnetic field is confined by the solar wind and its framework is formed by the field lines e

Living Physical Geography Bruce Gervais, 2015-01-09 Bruce Gervais new text offers a fresh approach to the study of physical geography combining print and digital media to create a scientifically substantive work that is written for students Living Physical Geography focuses on human physical geography interactions using pedagogical features in the textbook and online to create a modern synthesis of the science of physical geography Each of the four major parts in Living Physical Geography is identified by energy flows within Earth's physical systems Additionally landscape analysis underpins the body of the text Step by step examples are used to illustrate how landforms and systems develop evolve and change through time

Proceedings of the American Philosophical Society Held at Philadelphia for Promoting Useful Knowledge, 1882

Sustainable Chemistry in Action Gautami Devar, 2025-01-03 Discover the path to a healthier life through the principles of sustainable chemistry Our book Sustainable Chemistry in Action delves into the mysteries of chemicals and their impact on human health and the environment We expose the harmful effects of industrial chemicals and highlight the importance of adopting greener practices Environmentalists have long raised alarms about these invisible killers prompting governments and chemists to seek greener solutions This book explores the development of environmentally friendly products such as toiletries and detergents replacing harmful substances with safer alternatives We discuss the pervasive issue of plastic pollution and its devastating effects on ecosystems Awareness and education are crucial in promoting sustainable practices and this book aims to enlighten readers on the importance of green chemistry Chemists are leading the way by utilizing renewable resources contributing to a healthier and more sustainable world

Leadership and Personnel Management: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2016-02-17 Strong leaders are essential to the structure of organizations across all industries Having the knowledge skill sets and tools available to successfully motivate manage and guide others can mean the difference between organizational success and failure Leadership and Personnel Management Concepts Methodologies Tools and Applications presents the latest research on topics related to effective managerial practice as well as the tools and concepts that attribute to effective leadership Focusing on a variety of topics including human resources diversity organizational behavior management competencies employee relations motivation and team building this multi volume publication is ideal for academic and government library inclusion and meets the research needs of business professionals academics graduate students and researchers

Educational Leadership and Administration: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2016-10-12 The delivery of quality education to students relies heavily on the actions of an institution's administrative staff Effective leadership strategies allow for the continued progress of modern educational

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