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Lecture Tutorials for Introductory Geoscience *Macmillan Higher Education*

A set of brief worksheets designed to be completed by students working alone or in groups, Lecture Tutorials in Introductory Geoscience engage students in the learning process and

make abstract concepts real. Through the use of effective questioning, step-by-step learning, and a progression of simple-to-complex visuals, Lecture Tutorials help students construct correct scientific ideas about often-difficult topics, while dispelling common misconceptions. Research based on extensive classroom use shows that Lecture Tutorials increase student learning more than just a lecture alone.

Lecture Tutorials in Introductory Geoscience *W. H. Freeman*

Lecture Tutorials in Earth Science

Karen Kortz and Jessica Smay bring their highly successful lecture tutorial approach to this easy-to-implement resource for any introductory earth

science module. The brief activities here get students actively involved in the practical application of earth science concepts, while helping them navigate common pitfalls and misconceptions.

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Lecture Tutorials for Earth Science *Macmillan Higher Education*

Get actively involved in the practical application of earth science concepts as you learn to navigate common pitfalls and misconceptions related to content from any introductory earth science course with Lecture Tutorials in Earth

Science.

Qualitative Inquiry in Geoscience Education Research *Geological Society of America*

Understanding Earth *Macmillan Higher Education*

Geology is everywhere in our daily lives. We are surrounded by materials and resources extracted from the Earth, our climate is changing at alarming rates, and hazards due to Earth's processes are leading to major catastrophes. We will be reliant upon a population of informed citizens to make and vote for policies that protect our Earth, and change that will keep our planet habitable. Therefore, understanding our Earth has never been more important. Understanding Earth

leads the way by fully integrating the study of climate science into the core intro geology curriculum. Through strategic placement of the climate science chapters at the beginning of the geomorphology content, we offer a text that places our changing climate as a key force shaping the rest of our discussion on Earth's surficial processes.

Journal of Geoscience Education

Discipline-Based Education Research

Understanding and Improving Learning in Undergraduate Science and Engineering *National Academies Press*

The National Science Foundation funded

a synthesis study on the status, contributions, and future direction of discipline-based education research (DBER) in physics, biological sciences, geosciences, and chemistry. DBER combines knowledge of teaching and learning with deep knowledge of discipline-specific science content. It describes the discipline-specific difficulties learners face and the specialized intellectual and instructional resources that can facilitate student understanding. Discipline-Based Education Research is based on a 30-month study built on two workshops held in 2008 to explore evidence on promising practices in undergraduate science, technology, engineering, and mathematics (STEM) education. This book asks questions that are essential to

advancing DBER and broadening its impact on undergraduate science teaching and learning. The book provides empirical research on undergraduate teaching and learning in the sciences, explores the extent to which this research currently influences undergraduate instruction, and identifies the intellectual and material resources required to further develop DBER. Discipline-Based Education Research provides guidance for future DBER research. In addition, the findings and recommendations of this report may invite, if not assist, post-secondary institutions to increase interest and research activity in DBER and improve its quality and usefulness across all natural science disciplines, as well as guide instruction and assessment across

natural science courses to improve student learning. The book brings greater focus to issues of student attrition in the natural sciences that are related to the quality of instruction. Discipline-Based Education Research will be of interest to educators, policy makers, researchers, scholars, decision makers in universities, government agencies, curriculum developers, research sponsors, and education advocacy groups.

Reflecting on Practice for STEM Educators

A Guide for Museums, Out-of-school, and Other Informal Settings

Routledge

Reflecting on Practice for STEM

Educators is a guidebook to lead a professional learning program for educators working in STEM learning environments. Making research on the science of human learning accessible to educational professionals around the world, this book shows educators how to relate this research to their own practice. Educators' collective work broadens the scope of an organization's reach, and through this effort, the organization grows its social capital in its local community and beyond. This book offers opportunities to engage in processes that lead toward organizational learning by attending to the professional growth of the educators. Tran and Halversen show how learning together can shape the language and meanings by which educators do and

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Focus on Geology Preliminary Edition

This Physical Geology textbook uses cutting edge research to guide the

creation of carefully structured pages that cover topics commonly taught in introductory physical geology courses. The book is focused around images and emphasizes the key concepts Research (e.g. Mayer, 2003) indicates that students learn more deeply: - when extraneous material is excluded rather than included, - from words and pictures than from words alone, - when printed words are placed near rather than far from corresponding pictures, and - when words are presented in conversational rather than formal style. Most traditional geoscience textbooks do not address this research. Although geoscience textbooks are image-rich, the text is often separate from figures, generally with a note in the text referring the student to look at the image. Research

indicates that many students just glance at the images or ignore them altogether, resulting in a less productive learning experience than intended by the authors. Also, most textbooks, even "essentials" versions, tend to have more information than an introductory student can learn in a semester, and the students, therefore, have a difficult time distilling the key concepts from the details. Images play an integral role in the textbook. There are no long blocks of text to read, but, instead, most information is presented incorporated in or around figures. Students therefore examine the images, integrating text and figures, which results in a deeper learning experience. Concepts are represented in multiple ways (photographs, written descriptions,

detailed drawings, sketches, graphs, analogies, etc.) to maximize student learning. Because research indicates that students have a difficult time pulling out the key points from images, many of the images in this book are simple, without too many realistic-but-distracting details. Many of the photographs are accompanied by a simplified sketch of the same area illustrating the important geological features shown. The process of comparing two images presenting the same information in different ways (e.g. a photograph and a sketch) directs students to observe the important features and requires students to integrate those two images, strengthening their learning. Simple language is used when writing, and non-

essential vocabulary words are omitted, so students will not focus on memorizing definitions without understanding the concepts. The book has a more conversational style than many current textbooks. This textbook presents the key concepts in geoscience without additional distracting details. As a result, this book is shorter than other books currently on the market. The concise nature of the book encourages students to read it. Because it emphasizes the key concepts, students have a better understanding of the fundamentals and will come to class more prepared. Therefore, instructors will be able to cover additional information in class, because the fundamentals are already understood by the students. The themes in the book are plate tectonics, water

cycle, rock cycle and how geology and people affect each other. These are concepts that are key in understanding geology and learning why it is relevant in today's society. These three themes are emphasized, and individual topics are related back to the overarching themes.

Special Papers

Exploring Geology *McGraw-Hill Higher Education*

Features 2,600 photographs and illustrations that help students visualize geologic processes and concepts. This title emphasizes on geologic concepts, processes, features, and approaches.

African Cultural Astronomy

Current Archaeoastronomy and Ethnoastronomy research in Africa

Springer Science & Business Media

This is the first scholarly collection of articles focused on the cultural astronomy of the African continent. It weaves together astronomy, anthropology, and Africa and it includes African myths and legends about the sky, alignments to celestial bodies found at archaeological sites and at places of worship, rock art with celestial imagery, and scientific thinking revealed in local astronomy traditions including ethnomathematics and the creation of calendars.

College of Engineering *UM Libraries*

University of Michigan Official

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How Does Earth Work?**Physical Geology and the Process of Science** *Prentice Hall*

With its unconventional yet highly effective approach, *How Does Earth Work?* demonstrates the process of science as a vehicle for investigating physical geology. Smith and Pun connect readers to the evidence behind the facts, instead of reproducing known facts—sparking interest in how science is practiced and how we know what we know. Like geology detectives, readers learn to think through the scientific

process and uncover evidence that explains Earth's mysteries. Chapters open with an essay that places a curious investigator in a realistic field or lab setting to observe and ask questions about geological phenomena. Integrated real-world connections link topics to issues of societal concern or relevant experience to increase appreciation of the value of discovering science; and annotated illustrations with thoughtful descriptions help readers observe the hypotheses presented. *Why Study Earth?* Minerals: Building Blocks of the Planet; Rocks and Rock-Forming Processes; Formation of Magma and Igneous Rocks; Formation of Sediment and Sedimentary Rocks; Formation of Metamorphic Rocks; Earth Materials as Time Keepers; Journey to the Center of Earth; Making Earth;

Motion Inside Earth; Deformation of Rocks; Global Tectonics: Plates and Plumes; Tectonics and Surface Relief; Soil Formation and Landscape Stability; Mass Movements: Landscapes in Motion; Streams: Flowing Water Shapes the Landscape; Water Flowing Underground; Glaciers: Cold-Climate Sculptors of Continents; Shorelines: Changing Landscapes Where Land Meets Sea; Wind: A Global Geologic Process; Global Warming: Real-time Change in the Earth System. MARKET: An interesting reference for anyone interested in learning more about Earth's processes.

Handbook of College Science Teaching *NSTA Press*

The Handbook offers models of teaching and learning that go beyond the typical

lecture-laboratory format and provides rationales for new practices in the college classroom. It is ideal for graduate teaching assistants, senior faculty and graduate coordinators, and mid-career professors in search of reinvigoration.

Physical Geology

"Physical Geology is a comprehensive introductory text on the physical aspects of geology, including rocks and minerals, plate tectonics, earthquakes, volcanoes, glaciation, groundwater, streams, coasts, mass wasting, climate change, planetary geology and much more. It has a strong emphasis on examples from western Canada, especially British Columbia, and also includes a chapter devoted to the geological history of western Canada. The book is a

collaboration of faculty from Earth Science departments at Universities and Colleges across British Columbia and elsewhere"--BCcampus website.

Meetings Abstracts, January-August 2006

Ocean Sciences Meeting, Honolulu, Hawaii, 20-24 February 2006; Joint Assembly, Baltimore, Maryland, 23-26 May 2006; Western Pacific Geophysics Meeting, Beijing, China, 24-27 July 2006

The Compilation and Evaluation of Instructional Objectives for Introductory Geology Courses Taught by the Audio-tutorial Approach at Institutions of Higher

Learning in the United States

Geophysical Inversion *SIAM*

This collection of papers on geophysical inversion contains research and survey articles on where the field has been and where it's going, and what is practical and what is not. Topics covered include seismic tomography, migration and inverse scattering.

A Student's Guide to Geophysical Equations *Cambridge University Press*

The advent of accessible student computing packages has meant that geophysics students can now easily manipulate datasets and gain first-hand modeling experience - essential in developing an intuitive understanding of the physics of the Earth. Yet to gain a

more in-depth understanding of physical theory, and to develop new models and solutions, it is necessary to be able to derive the relevant equations from first principles. This compact, handy book fills a gap left by most modern geophysics textbooks, which generally do not have space to derive all of the important formulae, showing the intermediate steps. This guide presents full derivations for the classical equations of gravitation, gravity, tides, earth rotation, heat, geomagnetism and foundational seismology, illustrated with simple schematic diagrams. It supports students through the successive steps and explains the logical sequence of a derivation - facilitating self-study and helping students to tackle homework exercises and prepare for exams.

Audio-tutorial Instruction

A Strategy for Teaching Introductory College Geology

Laboratory Manual for Introductory Geology

Developed by three experts to coincide with geology lab kits, this laboratory manual provides a clear and cohesive introduction to the field of geology. Introductory Geology is designed to ease new students into the often complex topics of physical geology and the study of our planet and its makeup. This text introduces readers to the various uses of the scientific method in geological terms. Readers will encounter a comprehensive yet straightforward style and flow as they journey through this

text. They will understand the various spheres of geology and begin to master geological outcomes which derive from a growing knowledge of the tools and subjects which this text covers in great detail.

Teaching Introductory College Geology by Television

Sedimentology and Stratigraphy

John Wiley & Sons

This fully revised and updated edition introduces the reader to sedimentology and stratigraphic principles, and provides tools for the interpretation of sediments and sedimentary rocks. The processes of formation, transport and deposition of sediment are considered and then applied to develop conceptual

models for the full range of sedimentary environments, from deserts to deep seas and reefs to rivers. Different approaches to using stratigraphic principles to date and correlate strata are also considered, in order to provide a comprehensive introduction to all aspects of sedimentology and stratigraphy. The text and figures are designed to be accessible to anyone completely new to the subject, and all of the illustrative material is provided in an accompanying CD-ROM. High-resolution versions of these images can also be downloaded from the companion website for this book at: www.wiley.com/go/nicholssedimentology.

Machine Learning and Artificial

Intelligence in Geosciences *Academic Press*

Advances in Geophysics, Volume 61 - Machine Learning and Artificial Intelligence in Geosciences, the latest release in this highly-respected publication in the field of geophysics, contains new chapters on a variety of topics, including a historical review on the development of machine learning, machine learning to investigate fault rupture on various scales, a review on machine learning techniques to describe fractured media, signal augmentation to improve the generalization of deep neural networks, deep generator priors for Bayesian seismic inversion, as well as a review on homogenization for seismology, and more. Provides high-level reviews of the latest innovations in

geophysics. Written by recognized experts in the field. Presents an essential publication for researchers in all fields of geophysics.

Super Volcanoes: What They Reveal about Earth and the Worlds Beyond

W. W. Norton & Company

An exhilarating, time-traveling journey to the solar system's strangest and most awe-inspiring volcanoes. Volcanoes are capable of acts of pyrotechnical prowess verging on magic: they spout black magma more fluid than water, create shimmering cities of glass at the bottom of the ocean and frozen lakes of lava on the moon, and can even tip entire planets over. Between lava that melts and re-forms the landscape, and noxious volcanic gases that poison the

atmosphere, volcanoes have threatened life on Earth countless times in our planet's history. Yet despite their reputation for destruction, volcanoes are inseparable from the creation of our planet. A lively and utterly fascinating guide to these geologic wonders, *Super Volcanoes* revels in the incomparable power of volcanic eruptions past and present, Earthbound and otherwise—and recounts the daring and sometimes death-defying careers of the scientists who study them. Science journalist and volcanologist Robin George Andrews explores how these eruptions reveal secrets about the worlds to which they belong, describing the stunning ways in which volcanoes can sculpt the sea, land, and sky, and even influence the machinery that makes or breaks the

existence of life. Walking us through the mechanics of some of the most infamous eruptions on Earth, Andrews outlines what we know about how volcanoes form, erupt, and evolve, as well as what scientists are still trying to puzzle out. How can we better predict when a deadly eruption will occur—and protect communities in the danger zone? Is Earth's system of plate tectonics, unique in the solar system, the best way to forge a planet that supports life? And if life can survive and even thrive in Earth's extreme volcanic environments—superhot, superacidic, and supersaline surroundings previously thought to be completely inhospitable—where else in the universe might we find it? Traveling from Hawai'i, Yellowstone, Tanzania, and the ocean

floor to the moon, Venus, and Mars, Andrews illuminates the cutting-edge discoveries and lingering scientific mysteries surrounding these phenomenal forces of nature.

Aspects of the Geology of Nigeria

The Stratigraphy of the Cretaceous and Cenozoic Deposits

Foundations of Earth Science *Prentice Hall*

This brief, paperback version of the best-selling Earth Science by Lutgens and Tarbuck is designed for introductory courses in Earth science. The text's highly visual, non-technical survey emphasizes broad, up-to-date coverage of basic topics and principles in geology,

oceanography, meteorology, and astronomy. A flexible design lends itself to the diversity of Earth science courses in both content and approach. As in previous editions, the main focus is to foster student understanding of basic Earth science principles. Used by over 1.5 million science students, the Mastering platform is the most effective and widely used online tutorial, homework, and assessment system for the sciences. This is the product access code card for MasteringX and does not include the actual bound book. Package contains: MasteringGeology standalone access card

Essentials of Geology W. W. Norton

A hands-on, visual learning experience for physical geology

Science Teaching Reconsidered

A Handbook *National Academies Press*

Effective science teaching requires creativity, imagination, and innovation. In light of concerns about American science literacy, scientists and educators have struggled to teach this discipline more effectively. *Science Teaching Reconsidered* provides undergraduate science educators with a path to understanding students, accommodating their individual differences, and helping them grasp the methods--and the wonder--of science. What impact does teaching style have? How do I plan a course curriculum? How do I make lectures, classes, and laboratories more effective? How can I tell what students are thinking? Why don't they

understand? This handbook provides productive approaches to these and other questions. Written by scientists who are also educators, the handbook offers suggestions for having a greater impact in the classroom and provides resources for further research.

International Conference of the Learning Sciences

Facing the Challenges of Complex Real-world Settings *Psychology Press*

The field of the learning sciences is concerned with educational research from the dual perspectives of human cognition and computing technologies, and the application of this research in three integrated areas: *Design: Design of learning and teaching environments,

tools, or media, including innovative curricula, multimedia, artificial intelligence, telecommunications technologies, visualization, modeling, and design theories and activity structures for supporting learning and teaching. *Cognition: Models of the structures and processes of learning and teaching by which knowledge, skills, and understanding are developed, including the psychological foundations of the field, learning in content areas, professional learning, and the study of learning enabled by tools or social structures. *Social Context: The social, organizational, and cultural dynamics of learning and teaching across the range of formal and informal settings, including schools, museums, homes, families, and professional settings. Investigations in

the learning sciences approach these issues from an interdisciplinary stance combining the traditional disciplines of computer science, cognitive science, and education. This book documents the proceedings of the Fourth International Conference on the Learning Sciences (ICLS 2000), which brought together experts from academia, industry, and education to discuss the application of theoretical and empirical knowledge from learning sciences research to practice in K-12 or higher education, corporate training, and learning in the home or other informal settings.

Promising Practices in Undergraduate Science, Technology, Engineering, and Mathematics Education

Summary of Two Workshops *National Academies Press*

Numerous teaching, learning, assessment, and institutional innovations in undergraduate science, technology, engineering, and mathematics (STEM) education have emerged in the past decade. Because virtually all of these innovations have been developed independently of one another, their goals and purposes vary widely. Some focus on making science accessible and meaningful to the vast majority of students who will not pursue STEM majors or careers; others aim to increase the diversity of students who enroll and succeed in STEM courses and programs; still other efforts focus on reforming the overall curriculum in specific disciplines. In addition to this

variation in focus, these innovations have been implemented at scales that range from individual classrooms to entire departments or institutions. By 2008, partly because of this wide variability, it was apparent that little was known about the feasibility of replicating individual innovations or about their potential for broader impact beyond the specific contexts in which they were created. The research base on innovations in undergraduate STEM education was expanding rapidly, but the process of synthesizing that knowledge base had not yet begun. If future investments were to be informed by the past, then the field clearly needed a retrospective look at the ways in which earlier innovations had influenced undergraduate STEM education. To

address this need, the National Research Council (NRC) convened two public workshops to examine the impact and effectiveness of selected STEM undergraduate education innovations. This volume summarizes the workshops, which addressed such topics as the link between learning goals and evidence; promising practices at the individual

faculty and institutional levels; classroom-based promising practices; and professional development for graduate students, new faculty, and veteran faculty. The workshops concluded with a broader examination of the barriers and opportunities associated with systemic change.