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For Introductory Geology courses. Applied lab investigations to improve readers' understanding of Earth's geology This user-friendly, best-selling lab manual examines the basic processes of geology and their applications to everyday life. Featuring contributions from over 200 highly regarded geologists and geoscience educators, along with an exceptional illustration program by Dennis Tasa, Laboratory Manual in Physical Geology offers an inquiry and activities-based approach that builds skills and gives readers a more complete learning experience in the lab. The 11th Edition features a new author and an editorial panel that bring a modern pedagogical and digital approach to the lab manual and the changing landscape of physical geology. In addition, readers can access Mastering(TM) Geology with MapMaster 2.0 interactive maps, pre-lab videos, animations, GigaPan Activities, and much more. Also available with Mastering Geology Mastering(TM) Geology is an online homework, tutorial, and assessment program designed to work with this text to engage students and improve results. Interactive, self-paced coaching activities provide individualized coaching to help students stay on track. With a wide range of activities available, students can actively learn, understand, and retain even the most difficult concepts. Note: You are purchasing a standalone product; Mastering Geology does not come packaged with this content. Students, if interested in purchasing this title with Mastering Geology, ask your instructor for the correct package ISBN and Course ID. Instructors, contact your Pearson representative for more information. If you would like to purchase both the physical text and Mastering Geology, search for: 013461531X / 9780134615318 Laboratory Manual in Physical Geology Plus Mastering Geology with eText -- Access Card Package Package consists of: 0134446607 / 9780134446608 Laboratory Manual in Physical Geology 0134609700 / 9780134609706 Mastering Geology with Pearson eText -- ValuePack Access Card -- for Laboratory Manual in Physical Geology

The new edition of this popular laboratory manual continues to provide introductory lab exercises for students studying physical geology. It incorporates exercises involving key areas in physical geology such as earth materials, topographic maps, aerial photographs, structural geology and plate tectonics.

For introductory geology courses. This ISBN is for the Modified Mastering access card. Pearson eText is included. Build 21st century skills with new 3D media experiences Laboratory Manual in Physical Geology offers an inquiry and activities-based approach that builds skills and gives students a complete learning experience in the lab. This user-friendly lab manual examines the basic processes of geology and their applications to everyday life, featuring an exceptional illustration program by Dennis Tasa and contributions from over 200 highly regarded geologists and geoscience educators. With the 12th Edition, lead author Vince Cronin and the newly formed NAGT editorial panel deliver the latest data and science, including new climate/environmental change and hazards/disasters lab activities. Personalize learning with Modified Mastering Geology By combining trusted author content with digital tools and a flexible platform, Mastering personalizes the learning experience and improves results for each student. Mastering Geology extends learning and provides students with a platform to practice, learn, and apply knowledge outside of the classroom. You are purchasing an access card only. Before purchasing, check with your instructor to confirm the correct ISBN. Several versions of the MyLab(TM) and Mastering(TM) platforms exist for each title, and registrations are not transferable. To register for and use MyLab or Mastering, you may also need a Course ID, which your instructor will provide. If purchasing or renting from companies other than Pearson, the access codes for the Mastering platform may not be included, may be incorrect, or may be previously redeemed. Check with the seller before completing your purchase.

This is an introductory-level college laboratory manual to accompany Physical Geology Lab. This book is written for non-science majoring students who are planning to complete their general education courses. The exercises include simple mathematical unit calculations, generation and reading scientific graphs, reading topographic maps, generating and reading contour diagrams, plate tectonics, minerals, igneous rocks, sedimentary rocks, metamorphic rocks, geologic time, rocks deformation, and geologic maps. The majority of the exercises are self-containing, and require no additional material.

This comprehensive introduction focuses on all of the major scientific processes of physical geology.

Lab manual placing great emphasis on student understanding of the earth as a complex, evolving system having interacting processes and cycles of change; designed for the introductory course (lab component) in physical geology. Practical consistent exercise format, concise background information, 15 exercises, and full-color illustrations.

Physical Geology Across the American Landscape

Give students the most hands-on, applied, and affordable lab experience.

This is a discount Black and white version. Some images may be unclear, please see BCCampus website for the digital version. This book was born out of a 2014 meeting of earth science educators representing most of the universities and colleges in British Columbia, and nurtured by a widely shared frustration that many students are not thriving in courses because textbooks have become too expensive for them to buy. But the real inspiration comes from a fascination for the spectacular geology of western Canada and the many decades that the author spent exploring this region along with colleagues, students, family, and friends. My goal has been to provide an accessible and comprehensive guide to the important topics of geology, richly illustrated with examples from western Canada. Although this text is intended to complement a typical first-year course in physical geology, its con-

tents could be applied to numerous other related courses.

Investigating the Earth System provides a modern approach to teaching undergraduate, introductory-level Earth Science and Physical Geology laboratories with the aim of creating science-savvy citizens capable and willing to make informed decisions about key environmental issues, including where to live. To achieve this end, the manual integrates three novel design elements while still covering traditional topics such as rock and mineral identification, surface and subsurface water resources, and map reading and interpretation. The first is to thoroughly and repeatedly engage students in all steps of the scientific method, including data collection, hypothesis construction, and hypothesis testing. By doing this in a highly conspicuous and intentional manner, the effect is to instill the experiential learning necessary for individuals to think like Earth scientists as a matter of routine. Second, the activities promote the relevance of the material at nearly every turn by providing thought-provoking queries based on real-world examples. Finally, and most crucially, the manual culminates in two capstone activities built on the guided inquiry approach. These activities allow students to apply their hard-won knowledge and skills to gather, synthesize, and analyze data obtained from publically-accessible online databases, thereby engaging in informed decision-making centered on real-world problems that pertain directly to Geology and Earth Science. Notably, these capstone activities have been fashioned so that they can be easily and quickly custom-tailored to meet local circumstances and interests. To help ensure student success, Investigating the Earth System is completely self-contained. All information necessary to complete each lab, including fundamental underlying principles and concepts, is provided on a just-in-time basis in the introduction to each lab activity. In addition, each lab is accompanied by a PreLab activity designed to allow students to hit the ground running when they enter the lab room. Because of this approach, most activities require little to no introduction in the lab room, thereby making the most of limited lab time and, in some cases, allowing for two activities to be completed within the time constraints of a traditional lab session. Investigating the Earth System, now in its second edition, is time-tested and incorporates feedback from thousands of undergraduate students at Eastern Michigan University gathered over 25 years of continuous use. A clear alternative to the traditional plug-and-chug method, the 16 activities that comprise this manual are nonetheless easy and foolproof to apply in practice, and are appropriate for majors and non-majors alike. "

Rock microstructures provide clues for the interpretation of rock history. A good understanding of the physical or structural relationships of minerals and rocks is essential for making the most of more detailed chemical and isotopic analyses of minerals. Ron Vernon discusses the basic processes responsible for the wide variety of microstructures in igneous, sedimentary, metamorphic and deformed rocks, using high-quality colour illustrations. He discusses potential complications of interpretation, emphasizing pitfalls, and focussing on the latest techniques and approaches. Opaque minerals (sulphides and oxides) are referred to where appropriate. The comprehensive list of relevant references will be useful for advanced students wishing to delve more deeply into problems of rock microstructure. Senior undergraduate and graduate students of mineralogy, petrology and structural geology will find this book essential reading, and it will also be of interest to students of materials science.

"The Blueprints to Our Home: A Physical Geology Laboratory Manual introduces the reader to the physical processes governing our planet and demonstrates how the multiple branches of science intersect to describe our world. Developed for a full term of lab work, this supplemental text gives the users hands-on, problem-solving experience by requiring the application of practical geologic concepts. Designed to educate students about both academic and applied geology, this laboratory manual addresses issues concerning how our home, the Earth, was built, how it continues to be remodeled, where all of our resources are stored, how to keep our living space clean and healthy, and how to identify and protect ourselves against inherently dangerous areas. The accessible writing style helps readers understand the ""why"" behind the ""whatâ and provides practical, problem-solving exercises that demonstrate the nature of scientific inquiry and the scientific method. The goal of this publication to equip students with the knowledge and tools they need to take advantage of the countless benefits our planet offers, while minimizing the risk of encountering potential hazards. As such, developing the necessary skills to read the blueprints of our home will foster an appreciation for the magnificence and complexity with which our planet operates and a desire to preserve and protect it. Elli Pauli completed a double B.S. in Marine Science and Geology at the University of Miami in Coral Gables, FL and was awarded an M.S. in Geochemistry from George Washington University. She is now the laboratory coordinator for the introductory geology courses at George Washington University, and is a professional lecturer in numerous colleges and universities throughout the Washington Metro Area, teaching classes in Environmental Geology, Physical Geology, Physical Geography and Geo-hazards and Land-use Planning. She has also worked with the Smithsonian Institution Museum of Natural History in the Department of Mineral Sciences and United States Geological Survey.

Dynamic labs emphasize real-world applications

For Introductory Geology courses This user-friendly, best-selling lab manual examines the basic processes of geology and their applications to everyday life. Featuring contributions from over 170 highly regarded geologists and geoscience educators, along with an exceptional illustration program by Dennis Tasa, Laboratory Manual in Physical Geology, Tenth Edition offers an inquiry and activities-based approach that builds skills and gives students a more complete learning experience in the lab. The text is available with MasteringGeology(tm); the Mastering platform is the most effective and widely used online tutorial, homework, and assessment system for the sciences. Note: You are purchasing a standalone product; Mastering does

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The Sixth Edition of the Introductory Geology Lab Manual, by J Bret Bennington and Charles Merguerian is being distributed by McGraw-Hill Publishers. The manual offers twelve integrated hands-on laboratory modules with major emphasis on mineral- and rock identification, map reading and interpretation, and earthquakes. The manual features an appendix on the geology of the southern part of the New England Appalachians but could be easily customized for adoption in other regions of the country. In a concise, no frills, and cost-effective manner, it covers the major topics in Physical Geology and is appropriate for both science and non-science majors. The manual's primary focus is basic and simple in that it employs methods of logical and inductive reasoning. It has been rigorously tested for effectiveness at the undergraduate level over the past ten years, the writing style is crisp and the graphics, diagrams, and tables are easy to read and understand. This 185-page manual is priced inexpensively and has removable worksheets.

This laboratory text is written for an introductory course in physical geography. The aim of the labs is to intellectually involve the students in what they are doing rather than have them just filling in blanks on a page. There are Internet exercises as well as the more traditional type, as well as improved stereopair 3-D photographs.

This Laboratory Manual in Physical Geology is a richly illustrated, user friendly laboratory manual for teaching introductory geology and geoscience

This Physical Geology lab manual is designed for a basic, introductory physical geology laboratory. Special emphasis is given to rock and mineral identification, topographic maps, and geology maps. Some environment exercises are also included. This lab manual has been successfully used at Santa Monica College for many years.

A comprehensive introduction that focuses on all of the major scientific processes of physical geology. Researched and written by two eminent geologists, the third edition includes new overarching themes of environmental issues and human interaction with the earth and its resources. Each chapter begins with an essay on this subject. Each part ends with a guest essay on the good stewardship of the Earth--how we can take care of our planet. The art program has been revised with 40% new art throughout to reflect current research.

The user This manual is designed for the use of geo-scientists with an interest and need in developing palaeobiological materials as a potential source

of data. To meet this objective practical procedures have been formatted for use by both professional and semi professional students with an initial understanding of palaeo biological research aims as a primary source of scientific data. I have attempted to provide an explanation and understanding of practical procedures which may be required by students undertaking palaeobiological projects as part of a degree course. The layout of this manual should be particularly beneficial in the instruction and training of geotechnologists and museum preparators. Graduate students and scientists requiring an outline of a preparation procedure will also be able to use the manual as a reference from which to assess the suitability of a procedure. This manual is also intended for use by the "committed amateur". Many of the techniques described in this manual have been devised by non-palaeontologists, and developed from methods used in archaeology, zoology and botany, as well as other areas of geology. A considerable number of the methods can be undertaken by the amateur, and in the case of many of the field procedures, should be used. This will ensure that specimens and samples can be conserved in such a manner as to facilitate any later research, and not invalidate the results of subsequent geochemical analytical techniques which might be employed.

This lab manual is accessible to science and nonscience majors and also provides a strong background for geology and other science majors. Concepts carry over from one lab to the next and are reinforced so that at the end of the semester, the students have experience at interpreting the rock record and an understanding of how the process of science works.

Zumberge's Laboratory Manual for Physical Geology, 15e is written for the freshman-level laboratory course in physical geology. In this lab, students study Earth materials, geologic interpretation of topographic maps, aerial photographs and Earth satellite imagery, structural geology and plate tectonics and related phenomena. With over 30 exercises, professors have great flexibility when developing the syllabus for their physical geology lab course. The ease of use, tremendous selection, and tried and true nature of the labs selected have made this lab manual one of the leading selling physical geology lab manuals.

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.

For majors and non-majors in undergraduate lab courses for Introductory Geology and Physical Geology. The best-selling lab manual for undergraduate lab courses in Physical Geology or Introductory Geology, for majors and non-majors. With contributions from more than 120 highly regarded geologists and geoscience educators, and an exceptional illustration program by Dennis Tasa, this user-friendly laboratory manual focuses students on the basic principles of geology and their applications to everyday life in terms of natural resources, natural hazards, and human risks. This edition pushes the frontiers of geologic education even further with the inclusion of four new computer-based labs.

The best selling geology manual; revised and enhanced! Adopted at over 125 school in its First Edition, the completely revised and tested Second Edition of the Ludman/Marshak Laboratory Manual for Introductory Geology contains inquiry based exercises, rock group labs, and a modern treatment of geologic mapping. The Second Edition enhances the strengths of the First Edition with even better visuals-enhanced photos, maps, charts and figures, and it also reflects new innovations in geologic mapping.

If it's important for you to incorporate the scientific method into your teaching, this lab manual is the perfect fit. In every exercise there are scientific method boxes that provide students with insight into the relevance of the scientific method to the topic at hand. The manual also includes "In Greater Depth" problems, a more challenging probe into certain issues. They are more quantitative in nature and require more in-depth, critical thinking, which is unique to this type of manual.