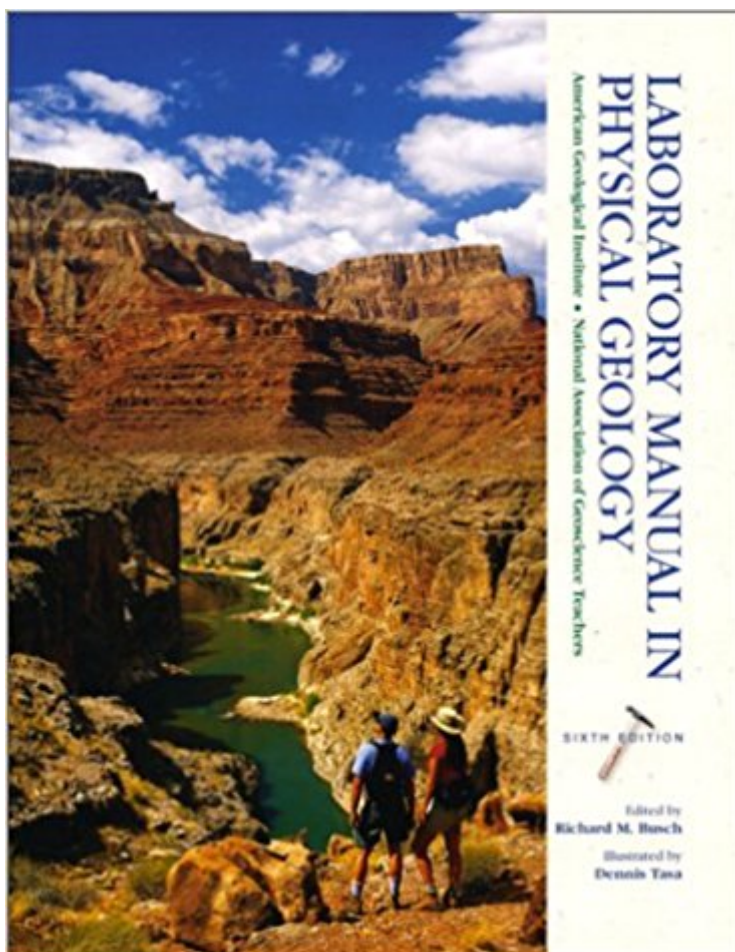


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# Laboratory Manual In Physical Geology (6th Edition)



## Synopsis

With contributions from more than 120 highly regarded geologists and geoscience educators, and an exceptional illustration program by Dennis Tasa, this user-friendly, best-selling laboratory manual focuses on the basic principles of geology and their applications to everyday life in terms of natural resources, natural hazards, and human risks. This edition of the AGI/NAGT Lab Manual in Physical Geology

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With contributions from more than 120 highly regarded geologists and geoscience educators, and an exceptional illustration program by Dennis Tasa, this user-friendly, best-selling laboratory manual focuses on the basic principles of geology and their applications to everyday life in terms of natural resources, natural hazards, and human risks. This edition of the AGI/NAGT Lab Manual in Physical Geology addresses many current technologies such as satellite technologies, atomic resolution imaging, seismic tomography, and UTM mapping and system. It also covers many current topics such as isostasy, origin of magma, modeling Earth's interior, rock cycling and plate tectonics, volcanic processes and hazards, numerical dating, GPS, UTM, floods, ground water, glaciers as barometers of climate change, dryland hazards, coastal hazards, earthquakes, Earth resources, and human risks. For anyone wishing to learn more about physical geology through practice exercises.

Laboratory Manual in Physical Geology is the most widely adopted, user-friendly manual available

for teaching laboratories in introductory geology and geoscience. The manual has been produced under the auspices of the American Geological Institute (AGI) and the National Association of Geoscience Teachers (NAGT). It is backed up by an Internet site, GeoTools (ruler, protractor, UTM grids, sediment grain-size scale, etc.), Instructor Resource Guide, Instructor Slide Set, Instructor Transparency Set, and a Digital Image Gallery (DIGIT) CD-ROM. The idea for such a jointly sponsored laboratory manual was proffered by Robert W. Ridky (past president of NAGT and past member of the AGI Education Advisory Committee), who envisioned a manual made up of the, "best laboratory investigations written by geology teachers." To that end, this product is the 17-year evolution of the cumulative ideas of more than 160 contributing authors, faculty peer reviewers, and students and faculty who have used past editions. Undergraduate students have field tested all parts of this sixth edition and helped make it the most student-friendly edition ever. **OUTSTANDING FEATURES** This new edition contains the strengths of five past editions and new features developed at the request of peer reviewers and faculty and students who have used previous editions. The most outstanding features of this new edition are as follows. **16 Basic Laboratories** There are 16 laboratories on topics ranked most important by faculty peer reviewers. Each lab has 3-6 parts that can be mixed or matched at the instructor's discretion. **Consistent Focus and Pedagogy** Each Laboratory engages students in learning principles of geology and their applications to everyday life in terms of natural resources, natural hazards, and human risks. Students develop skills and infer results by analysis of maps/samples/photos, measuring, experimenting, making models, classifying, charting, graphing, and calculating. **Materials** Laboratories are based on samples and equipment normally housed in existing geoscience teaching laboratories (page ix). No expensive items to buy. **Greater Visual Clarity and Appeal** The manual is more richly illustrated than any other manual on the market. More than 280 high-quality photographs, images, stereograms, maps, and charts reinforce the visual aspect of geology and enhance student learning. More than half of these are revised or newly created on the basis of peer reviews and student feedback. **New Hands-On Experimental Labs** **New Laboratory One** engages students in geologic observation, measurement, and experimentation using standard laboratory equipment and techniques to measure materials, experiment with simple models, calculate numerical relationships, and evaluate how rock densities and isostasy influence global topography. **New Laboratory Two** challenges students to explore and evaluate plate tectonics, mantle convection, and the origin of magma using seismic tomography, lava lamps, physical and graphical models of partial melting, maps, and calculations. **New GeoTools** There are rulers, protractors, sediment grain size scales, UTM grids, and other laboratory tools to cut from transparent sheets at

the back of the manual. New Emphasis on GPS and UTM Students are introduced to these topics and their application in mapping and geology. UTM grids are provided for most scales of U.S. and Canadian maps. Enhanced Instructor Support Free instructor materials include the Instructor Resource Guide, slides, transparencies of most illustrations, maps, and photographs, and a Digital Image Gallery (DIGIT) CD-ROM. Outstanding Mineral and Rock Labs Mineral and rock labs are better than ever with enhanced student-tested illustrations, identification flowcharts, and the five-page mineral database. Internet Support Enhanced Web site supports all labs with additional information and links listed by laboratory topic or by state/province. Support for Geoscience Royalties from sales of this product support programs of the American Geological Institute and the National Association of Geoscience Teachers.

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