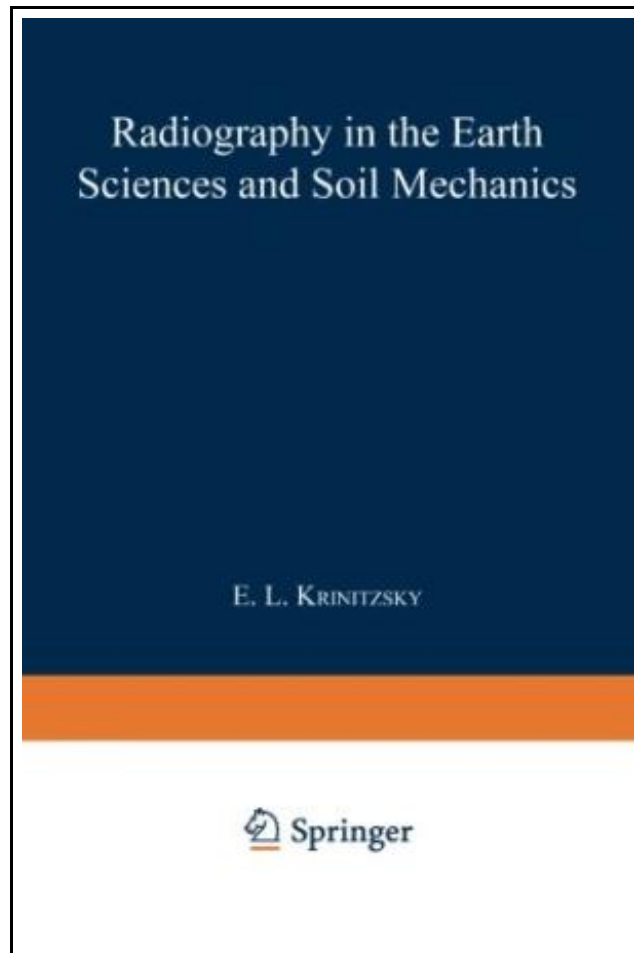


Radiography in the Earth Sciences and Soil Mechanics



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RADIOGRAPHY IN THE EARTH SCIENCES AND SOIL MECHANICS



Book Condition: New. Publisher/Verlag: Springer, Berlin | Radiography, the use of penetrating radiation to produce shadow images of the internal structure of materials, has been with us since Roentgen made his discovery of x rays in 1895. However, applications of radiography in the earth sciences and in the related field of soils engineering have, until recent ly, been slow to develop. Bruhl reported optimistically on applications in paleontology as early as 1896 and there have been additional reports through the years. However, very few paleontologists adopted the method and the significant literature is relatively restricted. In soil mechanics, Gerber observed the movement of lead pellets in sand during a plate-bearing test as early as 1929. Gradual ly, radiography was applied to other tests including those on footings, compaction of soils, strain in sand, effects of pile penetration, and displacements under moving wheel loads. Recently, such work has broadened into much varied and sophisticated research. Applications in geology may be dated to Hamblin's work on rocks reported in 1962. His demonstration that many fine textural and structural details can be observed in slices of rock led to experimentation by others on unconsolidated sediments and soils. Work is now expanding at an unprecedented rate. In some operations, such as the logging of oceanographic cores, it is already a routine process. The advantages of radiography lie in its nondestructive nature and its ability to reveal features that sometimes cannot be seen in any other way. | 1. Introduction.- 2. Elements of Radiography.- Characteristics of X Radiation and Gamma Radiation.- Scattered Radiation.- Absorption.- Distance and Intensity Relationship.- Geometric Factors.- Neutron Radiation.- 3. Radiographic Images and Symbols.- Fluoroscopy.- Radiographic Film.- Exposure Charts.- Print Enhancement.- Stereoradiography.- Image Intensifiers.- Notation of Radiographic Data.- 4. Laboratory Operations.- Operational Procedures.- Continuous Scanning.- Low-Intensity Radiation.- High-Intensity Radiation.- Flash...



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