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Description. Ground-penetrating radar (GPR) is a rapidly developing field that has seen tremendous progress over the past 15 years. The development of GPR spans aspects of geophysical science, technology, and a wide range of scientific and engineering applications. It is the breadth of applications that has made GPR such a valuable tool in the geophysical consulting and geotechnical engineering industries, has lead to its rapid development, and inspired new areas of research in academia.

Ground Penetrating Radar Theory and Applications ...
Ground Penetrating Radar: Theory and Practice is a practical guide to using this powerful underground surveying technique. The author uses her wide experience to explain the critical factors in using GPR and how parameters, such as wavelength, attenuation and loss need to be properly considered to obtain good survey results.

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Ground-penetrating radar is a geophysical method that uses radar pulses to image the subsurface. This nondestructive method uses electromagnetic radiation in the microwave band of the radio spectrum, and detects the reflected signals from subsurface structures. GPR can have applications in a variety of media, including rock, soil, ice, fresh water, pavements and structures. In the right conditions, practitioners can use GPR to detect subsurface objects, changes in material properties, and voids

Ground-penetrating radar - Wikipedia
Among all the forensic applications in which it has become an important exploration tool, ground penetrating radar (GPR) methodology is being increasingly adopted for buried landmine localisation, a framework in which it is expected to improve the operations efficiency, given the high resolution imaging capability and the possibility of detecting both metallic and non-metallic landmines.

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Ground Penetrating Radar - 1st Edition
Ground Penetrating Radar (GPR) is a real-time NDT technique that uses high frequency radio waves, yielding data with very high resolution in a short amount of time. This technique uses electromagnetic waves that travel at a specific velocity determined by the permittivity of the material.

Ground-Penetrating Radar - an overview | ScienceDirect Topics
Ground penetrating radar (commonly called GPR) is a high resolution electromagnetic technique that is designed primarily to investigate the shallow subsurface of the earth, building materials, and roads and bridges. GPR has been developed over the past thirty years for shallow, high resolution investigations of the subsurface. GPR is a time-depen

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