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a width estimation method for a subsurface water-filled crack using internal multiple reflections is proposed. the energy transport and path length of internal multiple reflections are analyzed from electromagnetic scattering model of a dielectric cylinder using the extended ray theory. the energy transport shows that some multiple rays transport along the surface of the cylinder to the receiver, which form the creeping waves, and some multiple rays refract toward the receiver, focusing on the radial direction. previous research results show that the em scattering of a dielectric cylinder with circular cross-section illuminated by a plane wave can be simply viewed as an ideal system of “incident, backscattered, and scattered ray with negative refraction” [1619]. however, this phenomenon is contrary to the fact that one should observe a reversed of the propagating directions of the incident and the backscattered rays. in this paper, a theoretical analysis of the effect of incident ray refracting in the dielectric medium and the effect of internal multiple reflections on the time-dependent wavefronts in the cylinder are given. then, the process of internal multiple reflections is deduced, which may help to explain the em scattering characteristic of a dielectric cylinder with circular cross-section. finally, experiments with two types of water-filled cylindrical cracks were performed to verify the effectiveness of the proposed method. internal multiple reflections play an important role in the electromagnetic scattering of a dielectric cylinder with circular cross-section. to study the influences of incident ray refracting in the medium and multiple reflections on the time-dependent wavefronts in a dielectric cylinder, the multiple reflections are studied by means of the extended ray theory using the lorentz reciprocal theorem (ert). the wave propagating mechanism is analyzed in the time-frequency domain. the em scattering is expressed in the time-dependent space form, which shows the dispersion relations of wave vectors.

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the width estimation of subsurface water-filled cracks is important in the diagnosis of underground anomalies. if the cracks cannot be detected in time or estimated correctly, they would extend and may result in serious security accident [17]. in recent years, many techniques have been used for crack detection and estimation [24].the possibility of crack detection with gpr in asphalt pavement was proved by ahmad [3]. in the study, the influencing parameters and limitations were analyzed for

crack detection by gpr. however, the cracks are visible on the surface of the pavement. for a totally invisible subsurface crack, it has not been mentioned. the apertures of water-filled and air-filled fractures were determined by koivisto [5]. in the study, the fractures were layered. the gpr signal polarity was utilized to distinguish fractures with different material. moreover, the relationship of fracture aperture and vertical resolution of the antenna was investigated. these studies provide valuable methods for crack estimation. however, the internal scattering process has

not been involved. a width estimation method for a subsurface water-filled crack using internal multiple reflections is proposed. the energy transport and path length of internal multiple reflections are analyzed from electromagnetic scattering model of a dielectric cylinder using the extended ray theory. the energy transport shows that some multiple rays transport along the surface of the cylinder to the receiver, which form the creeping waves, and some multiple rays refract toward the receiver, focusing on the radial direction. the conclusion that the

path lengths are multiples of a diameter distance is utilized to estimate the width of the cylinder. in order to distinguish the adjacent reflections with small time interval, wavefronts and resonances of internal multiple reflections are also analyzed, based on the fact that the creeping waves and refracted waves at the radial direction show different resonances in the time-frequency domain. in order to verify the proposed method, experiments both in free space and subsurface scene are given to estimate the width of water-filled cracks. 5ec8ef588b

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