

the average distance of the air void and the average distance of the water are estimated through the spwv and spwrv distributions, as shown in table 6. as the air voids are distributed on the bottom surface, these distances are the averaged distances from the center to the nearest air void. in the same way, the distances of the water voids are the averaged distances from the center to the nearest water. since the measured distances of the air voids and the water voids are the real distances, we can conclude that the extraction and propagation model works well for the subsurface environment and can be used in a practical application. the signals are receiving and propagating in the subsurface environment. in order to reduce interferences between the em and the ground, the coupling coefficient between the em waves and the ground is estimated. the em waves can be guided and diffracted by the subsurface crack. assuming that the subsurface crack is a good conductor with an insulated layer, the reflection coefficient is determined to be 103 when the em waves are incident. this is a good agreement with the measurement of the electromagnetic field distribution and has a great effect on the ranging. the z -coordinate is divided into smaller parts and the results are shown in figure 7. from the results, we can see that the range shifts of the spwv and spwrv distributions vary within one order of magnitude. the ranges of the crack in pvc are 5.12 m and 5.61 m, while those in the plastic bottle are 6.63 m and 7.17 m. this indicates that the effective range is about two orders of magnitude. the effective ranges of spwv and spwrv are 6.87 m and 6.81 m, respectively. comparing with the propagation model and the measurement of the electromagnetic field distribution, the effective range is similar. this is mainly due to the fact that the ground can reduce the range.

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the proposed method in this paper is effective to detect the water-filled cracks. the average distance of the air void and the average distance of the water are in good agreement with the true values. in addition, the ground can be considered as a filter to smooth some high-frequency oscillation. for the plastic bottle, its measured width is longer than the theoretical one, which results in a longer effective range. but in this case, the accuracy is also verified, which means that it is a good method to distinguish the cracks in the plastic bottles from that in the water-filled pvc. this method has the merits of easy operation, good sensitivity, and easy acquisition of the data, which provides a theoretical support to the practical method and, furthermore, can be used to detect the small voids. for example, the maximum and minimum effective ranges are 5 m and 3.2 m, respectively. the subsurface water-filled crack is sensitive to the moisture content, since the total path length is sensitive to the thickness of the air voids. this is because that the large air voids have a larger attenuation coefficient and, hence, cause more internal reflections. the scattering function for a dielectric cylinder has been experimentally studied by [1618]. the results indicated that both the number of reflected and transmitted rays are dependent on the thickness of the cylinder, and the electric size of the cylinder, which is proportional to the cube of the length of cylinder. from this, it can be concluded that the relative power reflected by a cylinder increases monotonically as the thickness increases. the total reflection is improved, but the amount of reflection decreases.

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