
Pathloss 5 Crack [NEW] Full.27

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experiments are also conducted in the subsurface scene, and the results show that the width of a water-filled crack can be estimated by the method suggested in section 2. figure 9 shows the amplitude-time curve and the estimated crack width. based on the amplitude-time curve, the crack width estimated by the method in section 2 can be given at time $t = 14.6\text{ms}$. a slightly different crack width is given at time $t = 15$. the results show that the method is repeatable and robust in the subsurface scene. the results of path loss in a copper-based coaxial line model are also conducted to verify the accuracy of the estimated crack width. the estimate crack width can also be obtained by the method suggested in section 2. in figure 9, the estimated crack width is given at time $t = 15\text{ms}$. the result of path loss is slightly higher than that in figure 9. the reason for the higher path loss is that the copper-based coaxial line model is highly lossy. therefore, the obtained crack width is a little larger than that estimated from the experimental results. based on the above analyses, the width of a water-filled crack can be estimated in both water and water-filled crack situations. however, one needs to take into account the damping water echoes, which may lead to overestimation of the crack width in the water-filled crack situation. in reality, the response of a water-filled crack shows a spike echo corresponding to the resounding wave through water and a skirt echo corresponding to the returning wave through water that have the same phase and opposite polarity at the time interval t_d . the ratio of the spike echoes to the total echoes is around 0.7, while the ratio of the skirt echoes to the total echoes is around 0.3. the estimated crack width can be underestimated by the methods of section 2, if the response of the water-filled crack is assumed to consist of only the first spike echoes with the full extension of the system in the time-domain wavefront analysis. the measurements of the reflection coefficient of water shows that the reflection coefficient of water is 0.35 at around 1.5ghz, which means that the return wave through water is actually stronger than the wave through water. in order to estimate the crack width, the value of reflection coefficient should be around 0.65.

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scholte [978] has observed that the resonance frequency, f_r , is given by the relation $f_r = nv$, in which f is the resonant frequency; n is the refractive index of the medium; and v is the frequency of the electromagnetic wave. the resonant frequency is the main reason that makes the em energy concentrate inside the medium, thereby causing high-frequency oscillation. in general, the incident light energy is mainly transmitted in the low-frequency zone. meanwhile, the incident light energy transferred to high-frequency zone is extremely small at such a low frequency. when the frequency approaches the resonant frequency, the resonance effect is most remarkable. the resonant frequency f is usually smaller than the incident light frequency. however, this phenomenon can be easily observed if the refractive index n of the surrounding medium is larger than 1. a conclusion can be made that the radiative rate of water is higher in the frequency zone around the resonance frequency. the resonance frequency of the medium is related to its geometrical properties, such as its depth, diameter, and height. moreover, the material property of the medium also makes the resonant frequency vary.

therefore, the estimation of resonant frequency is of great importance in characterizing the characteristics of the medium. in this study, the internal multiple reflection between two sides of a dielectric cylinder was simulated and analyzed in time-frequency domain. based on the resonant phenomenon, the transmittances of internal multiple reflections were defined for the specific depth of the cylinder. as such, the transmission radii of the cylinder can be determined using a least square method. the transmittances given by the inner and outer boundaries of the cylinder can be obtained by applying euler's formula. therefore, the width of the water-filled crack can be calculated by deducing the two transmittances from a direct measurement of the width of the crack. the widths of both water-filled plastic bottle and pvc pipe were estimated and compared with the true values, and the experimental results show good agreement. 5ec8ef588b

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