

MULTIPATH HEIGHT FINDING METHOD

ABSTRACT OF THE DISCLOSURE

A method for determining the height H_T of a target above a surface, the method comprising the steps of determining a distance R from a source to a target, determining a distance L representative of a distance traveled by a signal from the target that is reflected by the surface to the source, determining a height H of the source above the surface, and determining the height H_T of the target using the equation:

$$H_T = \frac{(L^2 - R^2)}{4H}$$

Associated target height errors that result from input errors can also be determined using the equation.

Fig. 1