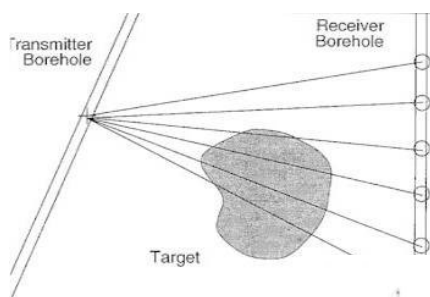


Application Note

Radio Tomography



Borehole Rim Sonde



CLEAR SUBSURFACE IMAGES

Electromagnetic Tomography, also known as Radio Imaging Method (RIM) gives an image of the rock between two bores or mine drives.

Technically it gives the conductivity distribution of the ground between a transmitting antenna and receiving antenna. The method is similar to a medical CT Scan, however our access around the feature of interest is often limited to boreholes or roadways either side of the target. Thus we acquire a 2D image that represents a slice through the target.

Applications include:

- Mapping Defects in Coal Longwall Panels
- Mapping faults and fault structures in Coals Seams
- Mapping mineral deposits using Crosshole rim
- Locating Voids

The diagrams below shows the RIM data examples. The picture on the left shows typical raypath coverage between 2 boreholes.



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Rim Crosshole survey data

The darker Blue is Coal, the interburden is shown as yellow to green

