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Feasibility Study of Capacitive Tomography

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Abstract : In this paper, a feasibility study was conducted to test whether capacitive sensors could be used to detect water and produce a graph with the minimal amount of equipment and materials. A lab was set up to conduct experiments and retrieve raw data. The data is then processed using a back projection algorithm in an attempt to reduce an image of the water from within a non-metallic pipe. The images are compared to theoretical models to determine whether the test results are comprehensive and reliable enough to be used as a testing procedure .