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Microwave imaging for breast cancer detection has been of significant interest for the last two decades. Recent studies focus on solving the imaging problem using an inverse scattering approach. Efforts have mainly been focused on the development of the inverse scattering algorithms, experimental setup, antenna design and clinical trials.

On the Forward Scattering of Microwave Breast Imaging
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We overview the research trend on microwave imaging for early breast cancer detection. The technologies have two categories: ultra-wide band (UWB) radar that reconstructs the scattering power distribution in the breast and inverse scattering problem that reconstructs the dielectric properties distribution.

Microwave Imaging for Early Breast Cancer Detection ...

Inverse microwave imaging. Jun 27, 2017. Microwave imaging has been a promising concept, since its inception, for the detection of subsurface objects such as breast tumors due to a relative difference in the permittivity (technically, contrast) of the cancerous cells.

Inverse microwave imaging | Disha Shur

Microwave imaging techniques can be classified as either quantitative or qualitative. Quantitative imaging techniques (are also known as inverse scattering methods) give the electrical (i.e., electrical and magnetic property distribution) and geometrical parameters (i.e., shape, size and location) of an imaged object by solving a nonlinear inverse problem.

Microwave imaging - Wikipedia

sue. However, inverse scattering systems for breast imaging are often designed for frequencies in the UHF band (0.3 to 3 GHz), since signal to noise levels and inverse solution efficiencies tend to become more onerous at higher microwave frequencies. The longerwavelengthsoftheUHFbandscatterlessefficientlyfrom