

Second paper:

"2D imaging ESR using Microstripline Resonator"

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Summary of the second paper:

Recently it was suggested that the evanescent microwave technique was very useful to attain requirements of spectrometers applicable to many fields[1]

We realized that the evanescent technique using microstripline resonator which consists of two rectangle area connected by a narrow bridge.

ESR occurs at the narrow bridge only because the bridge has strong electronics current by suitable design.

2D imaging ESR is presented by moving DUT to X-Y direction on the narrow bridge when magnetic field is adjusted to ESR occurring.

The 2D imaging ESR is compact, transportable and light weight (22kg) for Comfortable testing.

***[1] above: X, Li, J, A, Mann, Jr., and M. Tabid-Azar, APPLIED OPTICS**

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