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| **Abstract:** |  |
| Breast Cancer is one of the deadliest forms of cancer faced by women every year. Despite having medical methods like Mammography, MRI and ultrasound available, they have various limitations due to poor tissue contrast. This results in misdiagnosis of breast cancer patients all over the world. The purpose of this paper is to detect the presence of breast cancer tumors in women by the variation of S11 parameter of a microstrip patch antenna. To reach the desired goal, a circular microstrip patch antenna has been designed in ISM band along with two types of breast phantoms in order to detect the presence of cancerous tumors. The antenna along with the breast phantoms have been created using CST design environment and its various parameters i.e. reflection coefficient, efficiency, SAR have been evaluated to reach the goal set by this paper. | |