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**Title**            *Integral Equation Method based Characterization of a Hybrid Deflection Yoke*

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### **Abstract**

*This report presents the computation of magnetic flux density of a rotationally symmetric ferrite loaded 3-D object by using Integral Equation Method. The example chosen is that of a hybrid deflection yoke of a color television. The Fredholm integral equation involved for computing the magnetic surface charge density is solved by applying the Method of Moments. This is followed by employing the Coulomb's law to magnetic surface charge density to obtain the scalar magnetic potential. The negative gradient of scalar potential gives the magnetic field from which magnetic flux density is obtained. The results are compared with those available in open literature.*