

## **Applications of Mathematics in Circuit Theory**

**A.Alwin**

SCSVMV University, Kanchipuram

Email: [alwin.best111@gmail.com](mailto:alwin.best111@gmail.com)

---

### **Abstract**

Application of Gaussian in circuit theory, using Kirchhoff's 2nd law. In this paper for a given circuit, forming into matrices form by using Kirchhoff's 2nd law we solve and find the current values. Less than  $3 \times 3$  matrices we can use Carmel's rule, but more than  $3 \times 3$ , Carmel's cannot be done, so gauss elimination method is used to find the current values for the given circuits

---