

References

- [1] Williams, T. (1996), EMC for Product Designers, Newnes.
- [2] Vijayaraghavan, G (2004), Practical Grounding, Bonding, Sheilding and Surge Protection. Newnes.
- [3] Kularathne, N. (2003), Modern Component Families and Circuit Block Design, Newnes.
- [4] Dhanasekaran, R., Rajaram, M., and Sivanandam,S,N., 2006, Mixed Mode EMI Noise Level Measurement in SMPS, American journal of applied science 1824-1830.
- [5] Nave, M.J., 1991.Powerline Filter Design for Switched –Mode Power supplies. New York.
- [6] Paul, C.R., 1992. Introduction to Electromagnetic Compatibility. New York, Wiley.
- [7] www.powersupply.com/filter
- [8] Datasheets(1996)[online], available from <<http://alldatasheets.com/datasheet.htm>>



University of Moratuwa, Sri Lanka.
Electronic Theses & Dissertations
www.lib.mrt.ac.lk

Appendix 1 – MatLab Program

```
x=10:1000;
f=106
n=.2
y=.1*f:.2:10*f;
y=1./1+2*j*n*(x./f)-(x./f).^2;
z=-20*log(y)
semilogx(x,z)
hold on
n=.3
y=.1*f:.2:10*f;
y=1./1+2*j*n*(x./f)-(x./f).^2;
z=-20*log(y)
semilogx(x,z)
n=.7
y=.1*f:.2:10*f;
y=1./1+2*j*n*(x./f)-(x./f).^2;
z=-20*log(y)
semilogx(x,z)
n=1./sqrt(2)
y=.1*f:.2:10*f;
y=1./1+2*j*n*(x./f)-(x./f).^2;
z=-20*log(y)
semilogx(x,z)
n=.67
y=.1*f:.2:10*f;
y=1./1+2*j*n*(x./f)-(x./f).^2;
z=-20*log(y)
semilogx(x,z)
n=1./sqrt(2)
y=.1*f:.2:10*f;
y=1./1+2*j*n*(x./f)-(x./f).^2;
z=-20*log(y)
semilogx(x,z)

n=1
y=.1*f:.2:10*f;
y=1./1+2*j*n*(x./f)-(x./f).^2;
z=-20*log(y)
semilogx(x,z)
n=2
y=.1*f:.2:10*f;
y=1./1+2*j*n*(x./f)-(x./f).^2;
z=-20*log(y)
semilogx(x,z)
n=4
y=.1*f:.2:10*f;
y=1./1+2*j*n*(x./f)-(x./f).^2;
z=-20*log(y)
semilogx(x,z)

grid on
```



University of Moratuwa, Sri Lanka.
Electronic Theses & Dissertations
www.lib.mrt.ac.lk