OCN Expt-5

CODE:

clc; clear; close all;

S0=0.0970;

lambda\_o=1310;

n2=1.48;

der=0.26;

rri=0.002;

lambda=1250:1:1600;

c=3\*(10^5);

Dwg=(((-1)\*n2\*rri\*der)./(c.\*lambda))\*(10^(12));

Dt=(lambda.\*S0.\*(1-((lambda\_o./lambda).^4)))/4;

Dm=Dt-Dwg;

figure;

xlabel('Wavelength (nm)');

ylabel('Dispersion (ps/(nm\*km))');

title('Dispersion profile');

plot(lambda,Dm);

hold all;

plot(lambda,Dwg);

hold all;

plot(lambda,Dt);

grid on;

legend('Material','Waveguide','Total');

Output (Part 1):



Output (Part 2):

