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% Mapping Function of Bilinear Transformation

clc;

clear all;

close all;

O= -50:0.05:50;

Ts=0.25;

W=2\*atan((O\*Ts/2));

subplot(2,1,1);

plot(O,W);

title('Mapping function of Bilinear Transformation');

xlabel('Omega');

ylabel('W');

O= -100:0.05:100;

Ts=0.25;

W=2\*atan((O\*Ts/2));

subplot(2,1,2);

plot(O,W);

title('Mapping function of Bilinear Transformation');

xlabel('Omega');

ylabel('W');