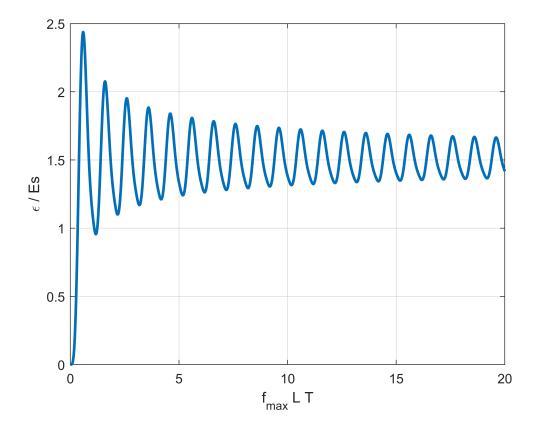
Wireless Communications EL-GY 6023

Homework 7 - Tommy Azzino (ta1731)

Problem 2

(b)



(c)

```
% one reference symbol every 2L samples
fmax = 100;
T = 1e-6;
epsilon_over_Es = 1/db2pow(20);

fmax_L_T_target = fmax_L_T(mse < epsilon_over_Es);
L = fmax_L_T_target(end)/(fmax*T);</pre>
```

```
min_overhead = 1/(2*L);
fprintf(1, 'The minimum overhead is: %f\n', min_overhead);
```

The minimum overhead is: 0.000543