**ECE 6380 – Homework 4**

**Caitlyn Caggia**

Modified Matlab code is attached.

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| --- | --- | --- | --- |
| Number of Mesh Layers | Number of Inner Nodes | Number of Outer Nodes | TM Resonant Wavenumbers |
| 3 | 20 | 32 | 1 1.0837083879527  2 1.1794063941597  3 1.1794063941597  4 1.4130344569317  5 1.432626941001  6 1.7432714468958 |
| 4 | 28 | 44 | 1 1.057526066965  2 1.1500232522284  3 1.1500232522284  4 1.3771089954088  5 1.387664929379  6 1.682928411026 |
| 5 | 32 | 52 | 1 1.0456794608239  2 1.1365745437136  3 1.1365745437137  4 1.3605937441549  5 1.3677126162694  6 1.6566509366669 |