**ECE231 Helpful Equations Sheet 3 (Version Fall 2016)**

**Complex Numbers**

|  |  |
| --- | --- |
|  | Euler’s identity: |

**Phasors**:  **RMS**: 

**Impedance**:   

**Power:**  For maximum power transfer 

 where 

**Transfer Function**: 

**Prototype Filter Transfer Functions**:  

 

 

**Some Filter Structures**:

|  |  |
| --- | --- |
|  |  |
|  |  |
|  |  |
|  |  |