Import BODE100

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data=import_bode100(filename)

Author: JCCopyrights Summer 2019 Project: CRANE: Medical WPT for Deep Brain Stimulation Implants Imports the data from a csv file generated from Bode Analyzer Suite Generates a struct that contains the data of all the traces.

Parameters

- @param **filename** Filename/Directory of csv to be imported.
- @retval **data** Output Struct.
- @TODO: Automate the trace detection of the .csv files (Read title after : and interpret the Strings)

Code

```
function data=import_bode100(filename)
 raw_bode = csvread(filename,1,0); %Ignore title
 %Could check for what taces are included in csv file but fuck you.
 data.name=filename;
 data.raw.f=raw_bode (:,1);
 data.raw.Z=raw_bode (:,2);
 data.raw.theta=raw_bode (:,3);
 data.raw.Ls=raw_bode (:,4);
 data.raw.Rs=raw_bode (:,5);
 data.raw.Q=raw_bode (:,6);
 %raw_data=readtable(filename); Using tables this will pack more info

%    | - Name: Original csv file
%    |
%    |  |-f: frequency range
%  data |  |-Z: Impedance in ohm
%    | - raw:|-theta: Impedance phase in degrees
%    |  |-Ls: Series Inductance
%    |  |-Rs: Real Impedance
%    |  |-Q: Quality factor
```

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