electrotest

0.99

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1.1 File List

Here is a list of all documented files with brief descriptions:

Chapter 2

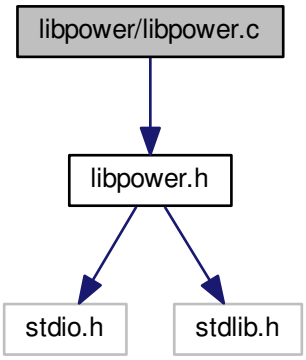
File Documentation

2.1 libpower/libpower.c File Reference

dynamic library for calculating power from resistance or current.

```
#include "libpower.h"
```

Include dependency graph for libpower.c:



Functions

- float calc_power_r (float volt, float resistance)

  function to calculate power from voltage and resistance
- float calc_power_i (float volt, float current)

  function to calculate power from voltage and current

2.1.1 Detailed Description

dynamic library for calculating power from resistance or current.

Author

Lorenz Gerber

Date

31.10.2016

2.1.2 Function Documentation

2.1.2.1 float calc_power_i (float *volt,* float *current*)

function to calculate power from voltage and current

The function calculates power in watt according to the formula volt∗ current

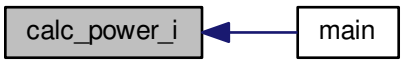
Parameters

volt	float, Voltage in volt
current	float, current in ampere

Returns

power float, Power in watt

Here is the caller graph for this function:



2.1.2.2 float calc_power_r (float *volt,* float *resistance*)

function to calculate power from voltage and resistance

The function calculates power in watt according to the formula volt^2/resistance

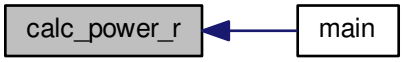
Parameters

volt	float, Voltage in volt
resistance	float, Resistance in ohm

Returns

power float, Power in watt

Here is the caller graph for this function:

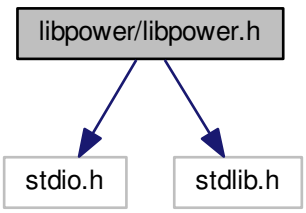


2.2 libpower/libpower.h File Reference

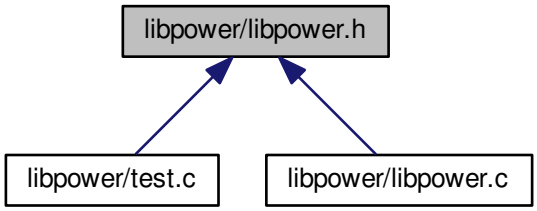
dynamic library for calculating power from resistance or current.

```
#include <stdio.h>
#include <stdlib.h>
```

Include dependency graph for libpower.h:



This graph shows which files directly or indirectly include this file:



Functions

- float calc_power_r (float volt, float resistance)
  function to calculate power from voltage and resistance
- float calc_power_i (float volt, float current)
  function to calculate power from voltage and current

2.2.1 Detailed Description

dynamic library for calculating power from resistance or current.

Author

Lorenz Gerber

Date

31.10.2016

2.2.2 Function Documentation

2.2.2.1 float calc_power_i (float *volt*, float *current*)

function to calculate power from voltage and current

The function calculates power in watt according to the formula volt∗ current

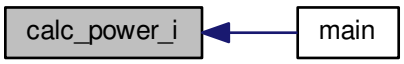
Parameters

volt	float, Voltage in volt
current	float, current in ampere

Returns

power float, Power in watt

Here is the caller graph for this function:



2.2.2.2 float calc_power_r (float *volt,* float *resistance*)

function to calculate power from voltage and resistance

The function calculates power in watt according to the formula volt^2/resistance

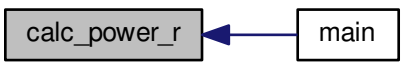
Parameters

volt	float, Voltage in volt
resistance	float, Resistance in ohm

Returns

power float, Power in watt

Here is the caller graph for this function:

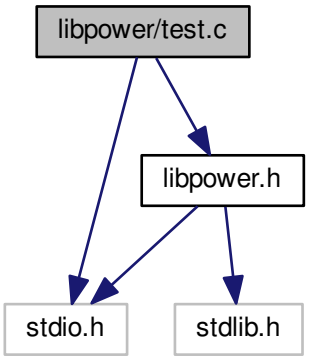


2.3 libpower/test.c File Reference

Test program for the libpower library.

```
#include <stdio.h>
#include "libpower.h"
```

Include dependency graph for test.c:



Functions

- int main (void)

2.3.1 Detailed Description

Test program for the libpower library.

Author

Lorenz Gerber

Date

31.10.2016

2.3.2 Function Documentation

2.3.2.1 main (void)

this function is used to test the libpower library

This function does not take any command line argument.

Returns

int, the function returns zero on succes

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