



PDF export example

Revision history

Version	Description	Author	Date
1.0	Initial revision	Plinsboorg	October 23, 2022
1.1	Your application	You	Today



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1 Fomula

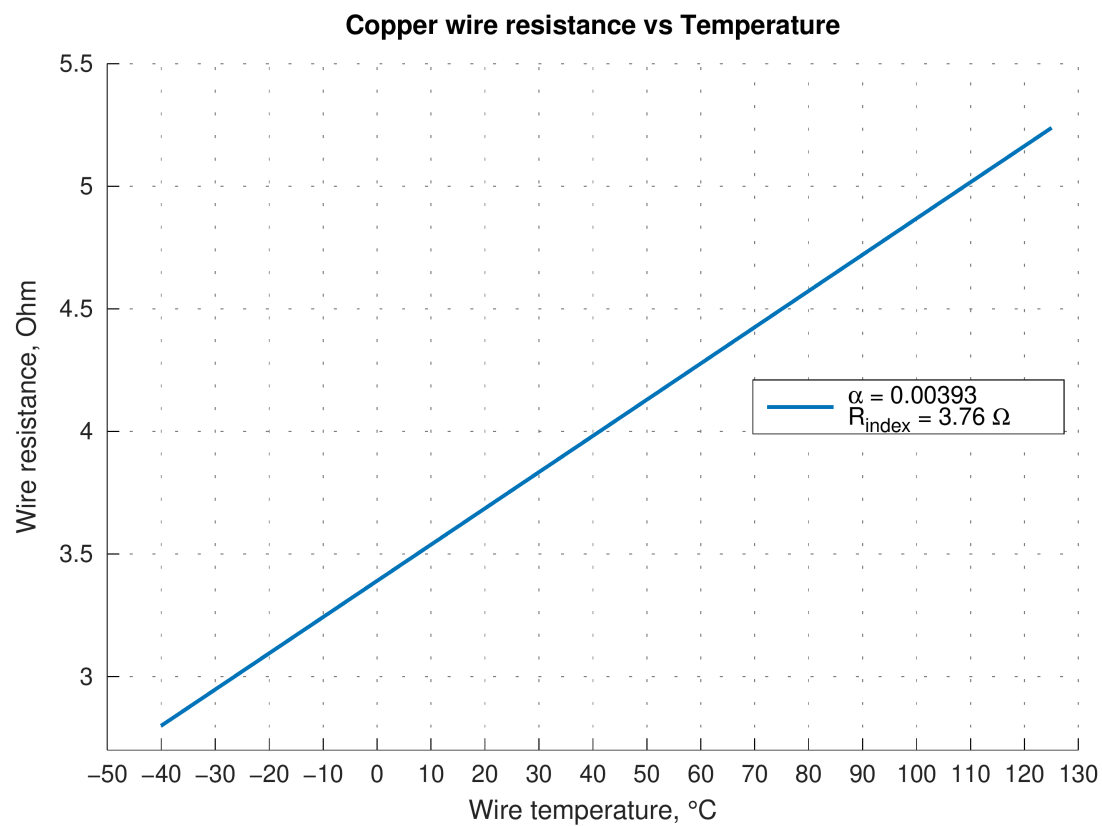
```
[13]: function Rcoil = res_from_temp (T)
      Tref=25;           # [°C] Reference temperature at which the resistance is specified.
      R20=3.76;          # [Ohm] Nominal resistance of copper wire.
      a=0.003930;        # [°C-1] Thermal coefficient of resistance of the copper
      Rcoil=R20*(1+a*(T-Tref));
    endfunction
```

$$R(T) = R_{REF} * (1 + \alpha(T - T_{ref})) \quad (1)$$

1.1 Graph

```
[5]: graphics_toolkit("gnuplot")
      %position: four-element vector, def. [300 200 560 420]
      %set style line 101 lc rgb '#808080' lt 1 lw 1
      %figure(1, 'position', [0,0,400,300]);
      fplot(@res_from_temp, [-40, 125], "linewidth", 5);
      box off;
      legend (cstrcat('\alpha = 0.00393', "\n", 'R_{index} = 3.76 \Omega'));
      hl = legend();
      set(hl, "fontsize", 9, "location", "east");
      %set(gca, "positon", [300 200 560 420])
      set(gca, "fontsize", 9)
      set(gca, 'xtick', -50:10:130);
      set(gca, 'ytick', 2.5:0.5:10);
      axis ([-50, 130, 2.7, 5.5]);
      set(gca, 'GridLineStyle', ':');

      title ("Copper wire resistance vs Temperature");
      xlabel ('Wire temperature, {\circ}C');
      ylabel ("Wire resistance, Ohm");
      %xticks ("auto");
      grid on;
      set (gca, 'gridcolor', [0.5,0.5,0.5], "linewidth", 1);
```



2 Picture

This is how you insert pictures





3 References section

1. Ref1
2. Ref2
3. Ref3
4. Ref4