H7DC-045

First order linearization

First order regression coefficients
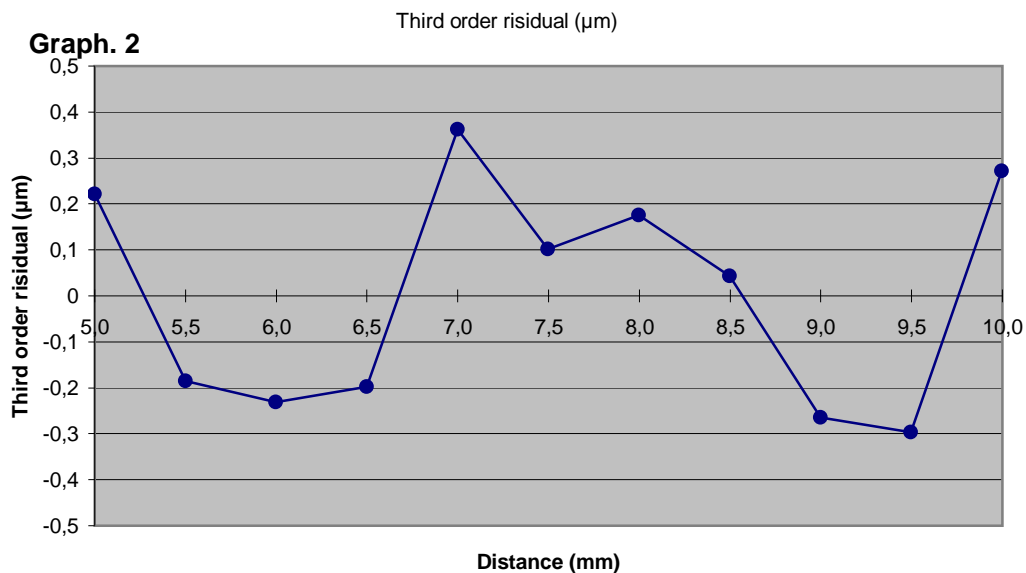$$d = 5,0075 + 0,49899 \, V$$

First order risidual (µm)

Graph. 1
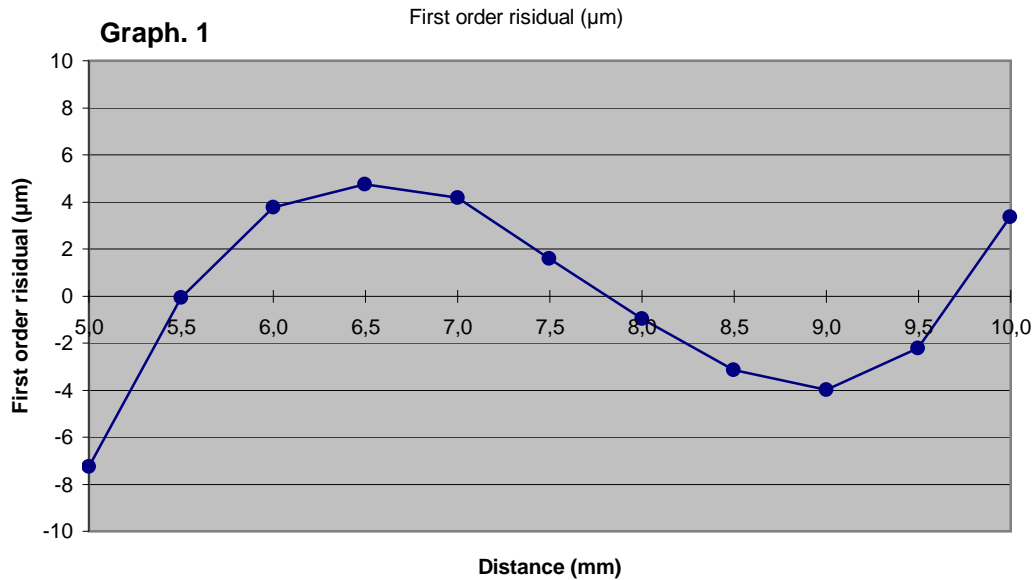
Third order linearization

Third order regression coefficients
$$d = 5,0001 + 0,50884 \, V - 0,002350 \, V^2 + 0,0001470 \, V^3$$

Third order risidual (µm)

Graph. 2

Legend : Linearization polynoms express distance d as a fonction of voltage V
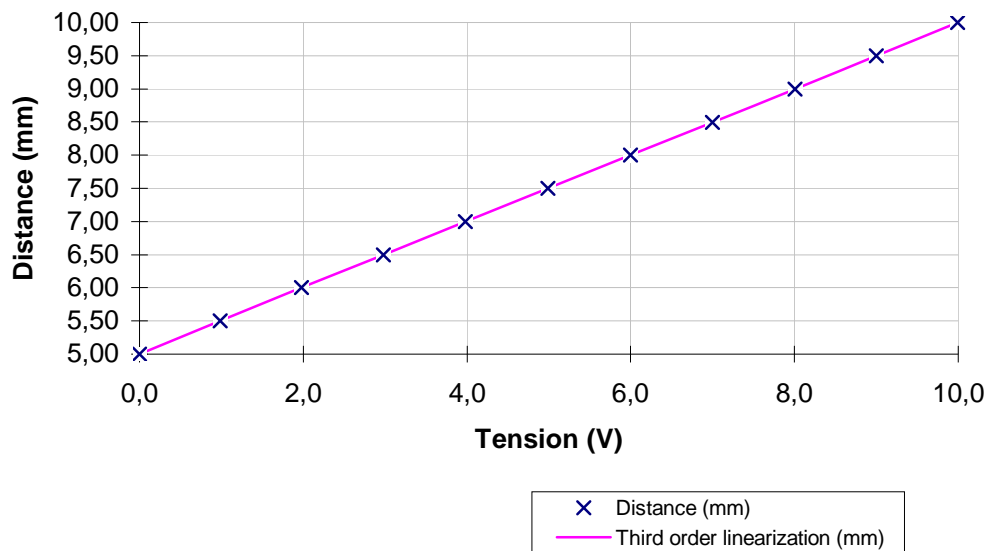- Distance is in mm
- Voltage is in V

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Date :　　　　19/12/2012

Sensor linearization

Résults

Distance (mm)	Voltage (V)
4,9993	-0,0020
5,4992	0,9855
5,9992	1,9798
6,4976	2,9767
6,9983	3,9813
7,4974	4,9867
7,9983	5,9957
8,4973	7,0000
8,9983	8,0058
9,4975	9,0026
9,9982	9,9949