H7DC-041

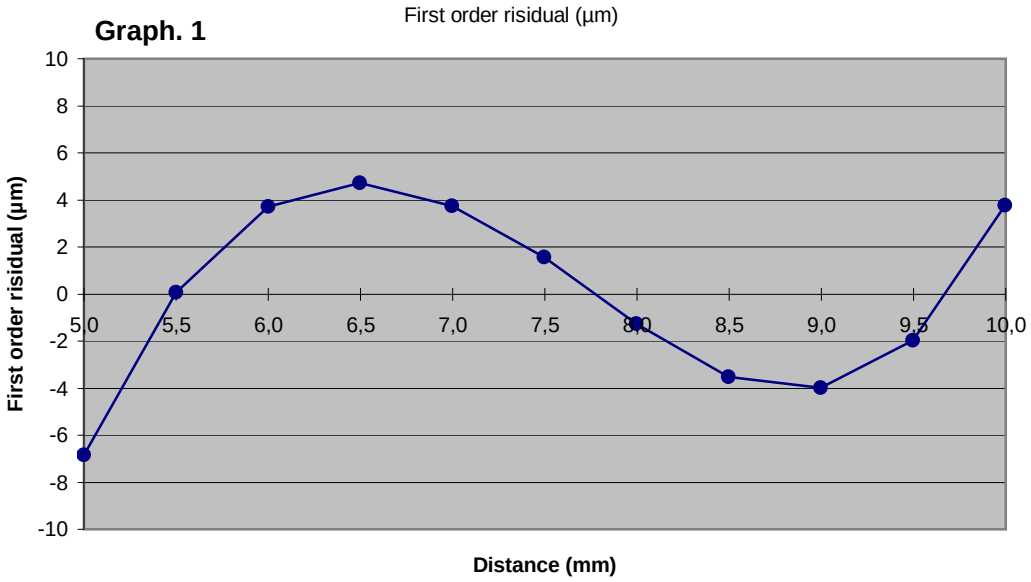
Date : 19/12/2012

First order linearization

First order regression coefficients

d = 5,0066 + 0,49883 V

Graph. 1

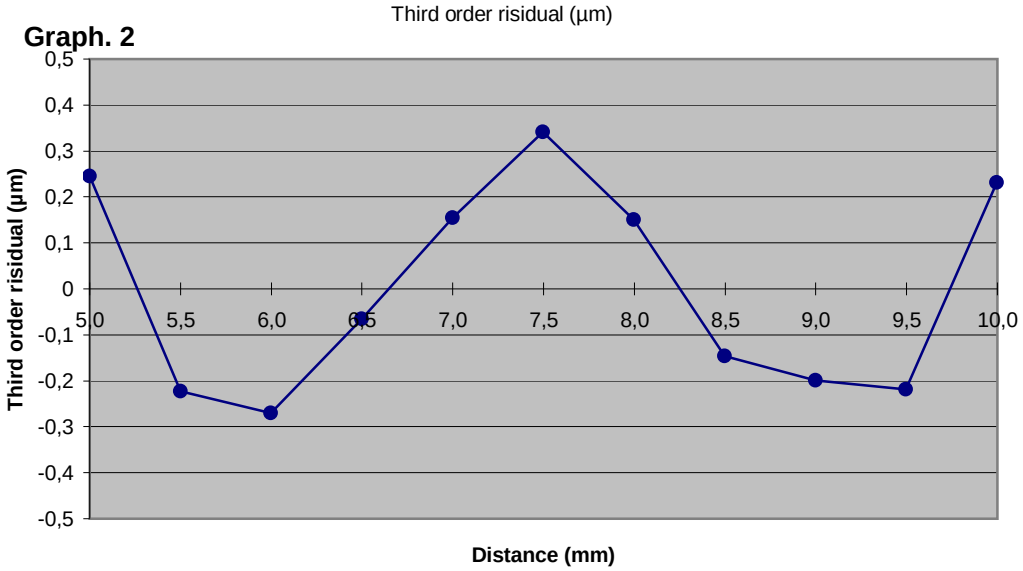


Third order linearization

Third order regression coefficients

d = 4,9995 + 0,50846 V - 0,002335 V^2 + 0,0001478 V^3

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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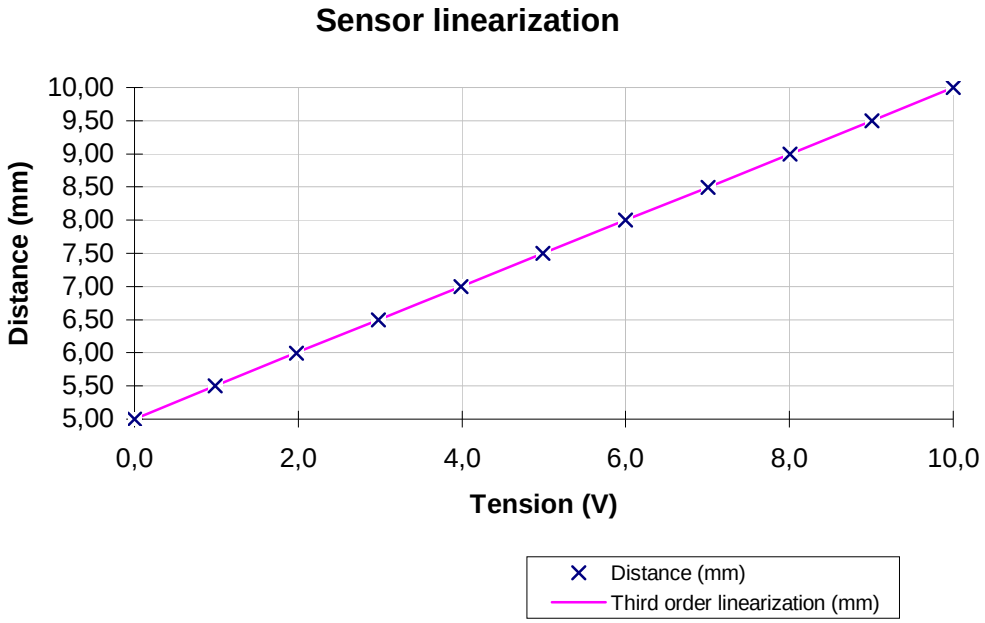

Résults

Distance (mm)	Voltage (V)
4,9992	-0,0010
5,4991	0,9872
5,9988	1,9817
6,4974	2,9792
6,9980	3,9847
7,4972	4,9898
7,9980	5,9994
8,4971	7,0045
8,9980	8,0096
9,4974	9,0067
9,9980	9,9987