

$$F(z,u) := \begin{pmatrix} u_0 \cdot z + u_1 \cdot z^2 + u_2 \cdot z^3 + u_3 \cdot z^4 \\ z \\ z^2 \\ z^3 \\ z^4 \end{pmatrix}$$

$$P_{01} = \begin{pmatrix} 8.469289617501 \\ 0.041677276463 \\ -0.000344785184 \\ 0.000000894218 \end{pmatrix}$$

Physical Volume is then calculated as:

$$V_2 := C_3 \cdot P_{al}^4 + C_2 \cdot P_{al}^3 + C_1 \cdot P_{al}^2 + C_0 \cdot P_{al}$$

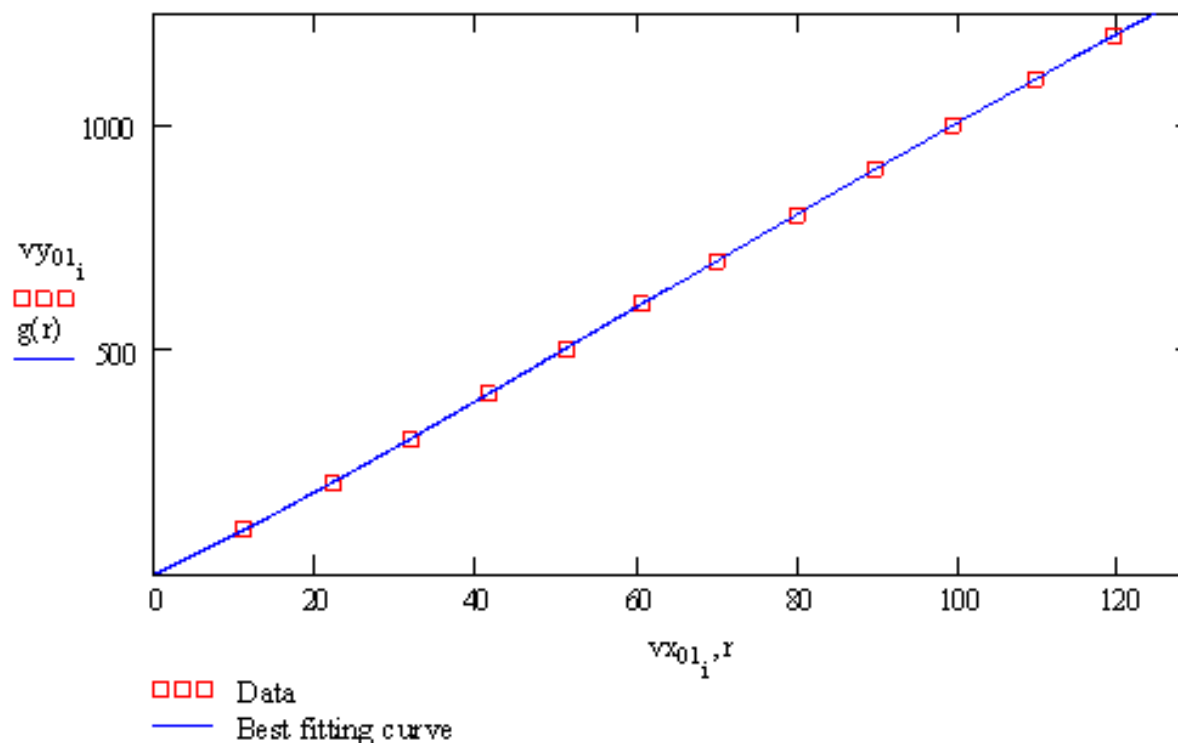
Functional fit to data:

$$r := 0, 0.1..125 \quad g(r) := F(r, P_{01})_0$$

$$i := 0..11$$

Residuals for 0.01 compliance:

$$R_{01} := v_{y01} - F(v_{x01}, P_{01})_0$$



	0
0	2.240680589632
1	-3.034376685690
2	0.741065105052
3	0.816597846839
4	-0.649831637848
5	0.481346623824
6	1.814919428389
7	-2.304797621378
8	-1.020114303674
9	1.707836216536
10	-0.018935907764
11	-0.247126487148