

Fuerza dinámica sobre superficies

$$F = \frac{Wv}{g}$$

$$F = \frac{Av\sigma v}{g}$$

$$F = \frac{A\sigma v^2}{g}$$

$$k = \frac{A\sigma}{g}$$

$$F = kv^n$$

$$\ln F = n \ln v + \ln k$$

F	"	t	ln F	v	ln v
0.21	3	10	5.43	15.3	2.72
0.16	2	10	5.07	10.2	2.32
0.10	1.8	10	4.60	9.18	2.21
0.07	1.5	10	4.24	7.65	2.03

$$A = \frac{\pi}{4} \phi^2 = \frac{\pi}{4} (5 \times 10^{-3})^2 = 1.96 \times 10^{-5}$$

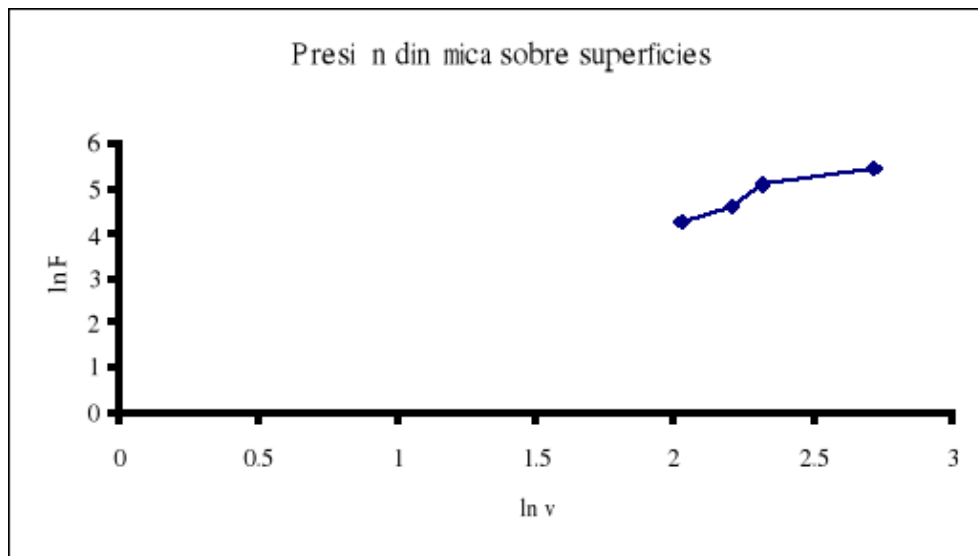
m²

$$Q = Av$$

$$Q = \frac{v}{t}$$

$$Q = \frac{v}{t}$$

$$v = \frac{Q}{At}$$



Operaciones

$$v = \frac{V}{At} = \frac{3 \cdot 10^{-3}}{(1.96 \cdot 10^{-5})(10)} = 15.30 \text{ m/s}$$

Presión dinámica sobre superficies curvas

$$F = \frac{Wv}{g}(1 - \cos \theta)$$

$$F = kv^n$$

$$\ln F = n \ln v + \ln k$$

F	"	t	ln F	v	ln v
0.32	4	10	5.76	20.4	3.01
0.2	2.5	10	5.29	12.75	2.54
0.02	1	10	2.99	5.1	1.63

$$A = \frac{\pi}{4} \phi^2 = \frac{\pi}{4} (5 \times 10^{-3})^2 = 1.96 \cdot 10^{-5}$$

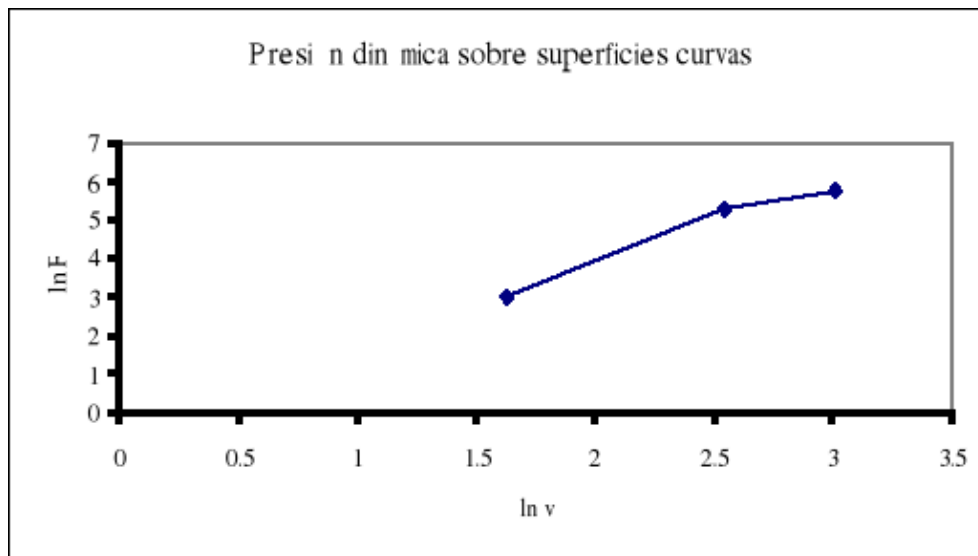
m²

$$Q = Av$$

$$Q = \frac{V}{t}$$

$$Q = \frac{V}{t}$$

$$v = \frac{V}{At}$$



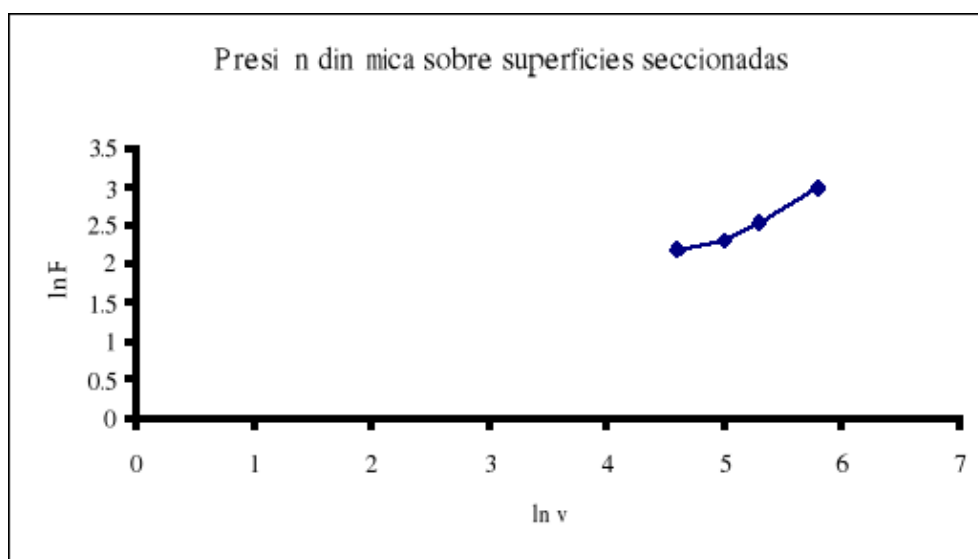
OPERACIONES

Presión dinámica sobre superficies seccionadas

$$F = kv^n$$

$$\ln F = n \ln v + \ln k$$

F	"	t	ln F	v	ln v
0.33	4	10	5.79	20.4	3.01
0.2	2.5	10	5.29	12.75	2.54
0.15	2	10	5.01	10.2	2.32
0.10	1.8	10	4.60	9.18	2.21



OPERACIONES

Inv

lnk

lnk

Inv

lnk

Inv