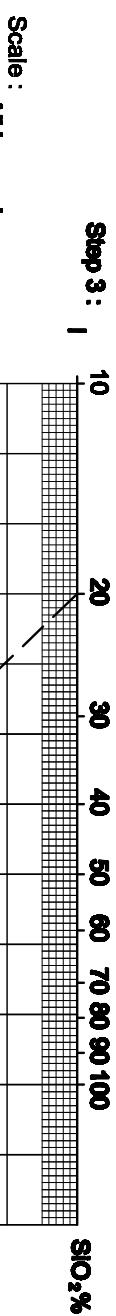


**Calculate silica modulus  $\text{SiO}_2 / (\text{Fe}_2\text{O}_3 + \text{Al}_2\text{O}_3)$**

Fig. no. W2.F2.2



Scale :

All log scales

I : 10 cm = 10-100

J : 10 cm = 10-100

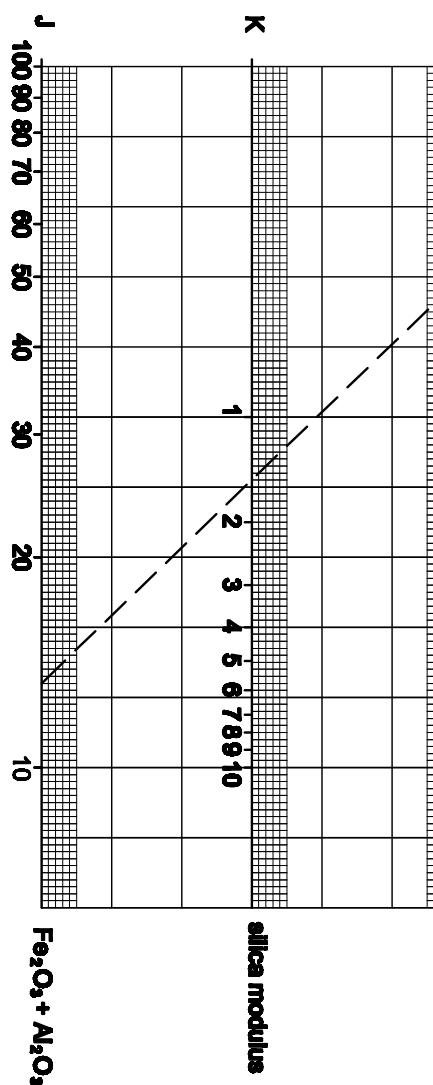
K : 5 cm = 1-10

example :

$\text{SiO}_2 = 20\%$  (line I)

$\text{Al}_2\text{O}_3 + \text{Fe}_2\text{O}_3 = 13\%$  (line J)

silica modulus = 1.53 (line K)



**Calculate hydraulic modulus =  $\text{CaO} / (\text{SiO}_2 + \text{Fe}_2\text{O}_3 + \text{Al}_2\text{O}_3)$**

Step 4 : L

Scale :

All log scales

L : 20 cm = 10-100

M : 20 cm = 10-100

N : 10 cm = 1-10

% CaO

example :

$\text{CaO} = 66\%$  (line L)

$\text{Fe}_2\text{O}_3 + \text{Al}_2\text{O}_3 + \text{SiO}_2 = 33$  (line M)

hydraulic modulus = 2 (line N)

Hydraulic Modulus

