

SDSWCC Measurement System

Automated environment controllable stress-controllable 1D soil column for measuring transient hydraulic properties **SDPFs SDSWCCs SDPFs SDSWCCs SDPF** , K_0 **SDSWCC** 欧美大地®仪器设备中国有限公司 EARTH PRODUCTS CHINA LIMITED(EMC®)

欧美大地科技集团成员 Member of Earth Technologies Group http://www.goc.com.hk http://www.gocco.com. **Geo-Experts**

IPM $h_{zi,tj}$ **SDPF** and D) $t_{\rm j}~(j=1,\,2)$ $z_{\rm i}~(i={\rm A,\,B,\,C})$

(3)

VWC

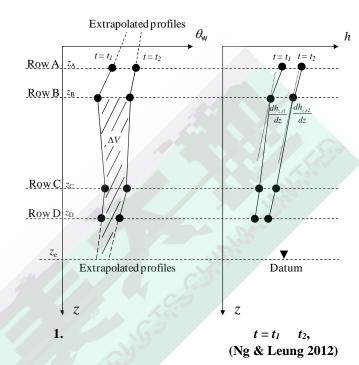
PWP

SDSWCC

PWP

VWC

LVDT



<u>– IPM</u>

ZA, ZB, ZC,

Geo-Experts

(1)

 $t = t_1$ t_2 $\theta_w(z, t)$ ΔV

Vze,ta v Ze $t_{ave} = (t_1 + t_2)/2$

 $i_{zB,tave} = \frac{1}{2} \left(\frac{dh_{zB,t1}}{dz} + \frac{dh_{zB,t2}}{dz} \right)$

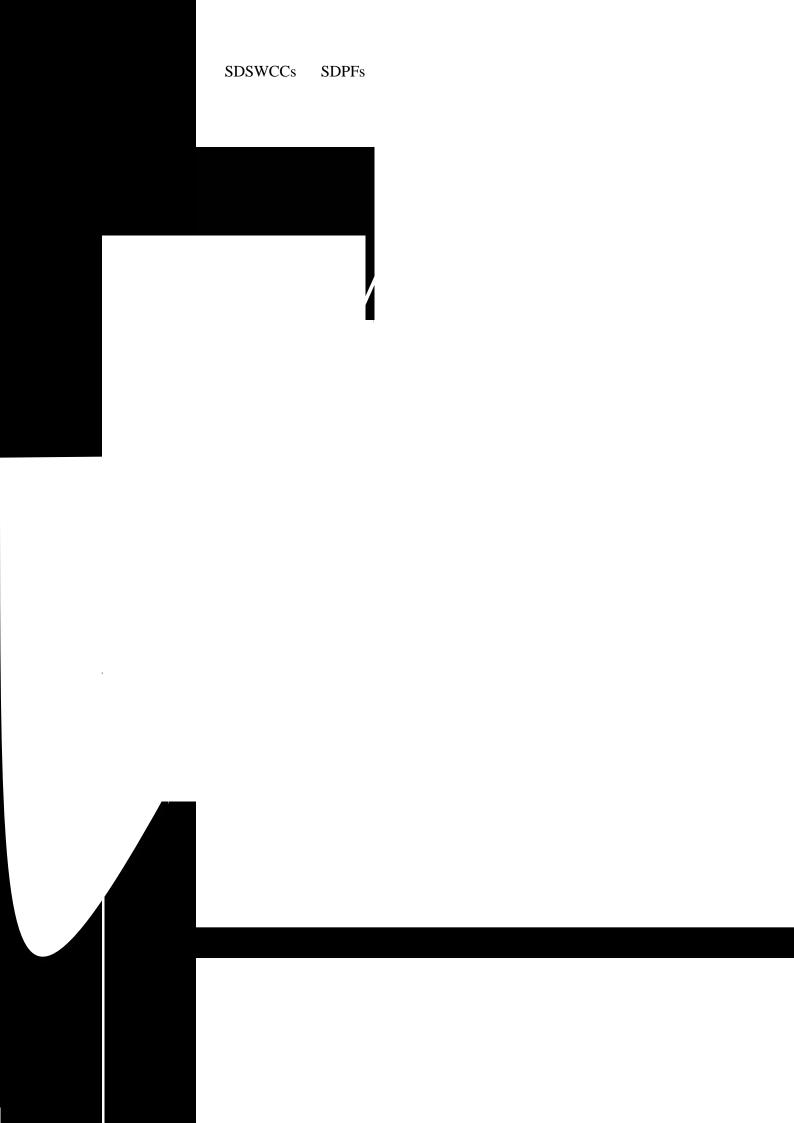
1

 $i_{zB,tave}$,

:\

 $=\frac{1}{4}\left[\left(\frac{h_{zA,t1}-h_{zB,t1}}{z_A-z_B}+\frac{h_{zB,t1}-h_{zC,t1}}{z_B-z_C}\right)+\left(\frac{h_{zA,t2}-h_{zB,t2}}{z_A-z_B}+\frac{h_{zB,t2}-h_{zC,t2}}{z_B-z_C}\right)\right]$ (2) (Mariotte's bottle.)

 $V_{ze,tave}$



: 150 mm 190 mm 1000 mm VWC 60 mm : 5 mm k: 150 mm 200 mm : 5 kg : 0.01 g $: \quad 10 \ kN$: 50 mm 0 - 450 kPa: 0 – 1000 kPa : 2 MPa 0.5 mV/V 2 % RO 1 channel, 4 dig VWC PWC

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