


```

> @ 0DGKXVXGKDQD 5 . >D@G .9HLVKQD +0 +XWFKLQJV
3 9 6HDVRQDO YDU$DWBDRQWLQD 6- 0HVRJRF
K\GURJUDSKLF VWDWXV RIG\QWPHLFX/ PQQWURY% HQJXHOD F
VZDPS RI 5LYHU .ULVKQD HPSKDVLOH RQHJWRQ KHUELYRU
$QGKUD 3UDGHVK ,QGLD 6%RLVLIQSRUSFDXQWLFDU 6FL ±
(FRV\VWHP > @ :LFNVWHDG -+
> @ 5RFKD 2 0DWVXRLQWURXGQGLRQ WR WKH VW>
< 7 (VSLQGROD (/ * 5RBQDQNRQGXWFKLQVRQ DQG 8
5LHWJOHU $ & (FRORJLFDO WKHRU\
DSSOLHG WR UHVHUYRLU JRRSODQNWRQ ,Q 7XQGLVL
-* 6WUDVNUDED 0 HGV 7KHRUHWLFDU UHVHUYRLU
HFRORJ\ DQG LWV DSSOLFDWLRQV ,QWHUQDWLRQDO
,QVWLWXWH RI (FRORJ\ %UDJLOLDQ $FDGHP\ RI
6FLHQFHV %DFNKXJV SXEOLVKHUV /HLGHQ
+ROODQG SS
> @ 5DMDJRSDO 7 7KDQJDPDQL $ DQG
$UFKXQDQ * &RPSDULVRQ RI
3K\VLFRFKHPLFDU SDUDPHWHUV DQG
SK\WRSODQNWRQ VSHFLHV GLYHUVLW\ RI WZR
SHUHQQLDO SRQGV WR 6DWWDU DUHD 7DPLOQDQX -
(QY %LRO
> @ 5DPFKDQGUD 79 DQG 6RODQNL 0
(FRORJLFDO $VVHVHPPHQW RI /HQWLF
:DWHU %RGLHV RI %DQJDORUH (QYLV 7HFKQLFDU
5HSRUW ,QGLDQ ,QVWLWXWH RI 6FLHQFH
%DQJDORUH
> @ 6LGGDPDOD\D 1 DQG 3UDWLPD 0
,PSDFW RI GRPHVWLF VHZDJH RQ
IUHVKZDWHU ERG\ - (QY %LR
> @6RXVD : -RVH / $WWD\GH (OLQH]
'DVLOYD 5RFKD DQG (QHLGD 0DULD
(VNLQD]L6DQWDQQD 7KH UHVSRQVH RI
JRRSODQNWRQ DVVHPEODJHV WR YDULDWLRQV LQ WKH
ZDWHU TXDOLW\ RI IRXU PDQ PDGH ODNHV LQ
VHPL DULG QRUWKHDVWHUQ %UDJLO - 3ODQNWRQ
5HVHDFK
> @6DUNDU 6. DQG &KDXGKDU\ %
5ROH RI VRPH HQYLURQPHQWDO IDFWRUV RQ WKH
IOXFXWDWLRQV RI SODQNWRQ LQ D OHQWLF SRQG DW
&DOFXWWD /LPQRORJLFDO UHVHDFK LQ
,QGLD 'D\D SXEOLVKLQJ KRXXVH 3S
> @9DUJDV &$ *RQ]iOH] +(
3ODQNWRQ FRPPXQLW\ VWUXFWXUH DQG FDUERQ
F\FOLQJ LQ D FRDVWDO XSZHoolQJ V\VWHP , ,
0LFURKHWHURWURSKLF SDWKZD\ $TXDW 0LFURE
(FRO ±

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