

:p/ 1\=I*Ô@H@q2 :>DÉA 2i)í?i>Ã;60•(Ž
 ,QIRUPDWLRQ)RUPDWLRQ 0-7 83 URIHVVLQR &RX

B.0; * \ Ÿ % DVLF , QIRUPDWLRQ			
B.0; =0 &RXUVH	Ä]· &KLAHWH!•LIFV¶e	Ä]· (QJOL'VKLWDO 0DQXIDFWXULQJ 7KHRU\ DQG 7 \$\$\$OLFDFWLRQ LQ 'LH DQG 0ROG	
-6 &UHGLWV		-& 7HDFKLQJ	+RXUV Ä -6 B.&Ä
0B.-O 6HPHVWHU	U“-O 6SULQJ	-VD-O &URVV VHPHVW	D 6SDQQLQJ Z-YHU 6U"PHÄW"HUOÄ Ä
B.0;2« » &RXUVH	CJ}“B. 3URJUDP &RXUVH)UR 0V12KHU &RXUVH	~ B.0;)RU IXOO WLPH VWXGHQW
B.0; WCX &RXUVH &	CJB 6SHFLDOLJHG DWHJRUV	B.0; iQ &RXUVH	Š+X \$OO JUDGXDWHV 6WXGHQWV
B.B @0 ,QVWUXFWLRQ /DQJXDJH	WLRQKLVH	k?±,B.é? 7HDFKLQJ	B.2% - Q FODVV WHDFKLQJ 0HWKRQ
@52« » *UDGH	1y\lf /HWWHU JUDG	k?±63hé? (IDP 0HWKRQ	Aê (VVD\
0B.L'3+ 6FKRRO	€É0 -> 0;-L'	6FKRRO RI PDWHULDOV	VFLHQFH DQG HJQ
pŽ-0 6XEMHFW	€É0 -> 0;	0DWHULDOV VFLHQFH	DQG HJQLQHULQJ
COCS % 8 3HUVRQLQ	= 1DPH ' , ' ;LRQKX ;LRQKX	...} 6FKRRO	€É0 -> 0;-L'
			6„3+é? (PDLO [K]KRX#VMWX HGX FQ

B.0;™ ... Ÿ ([WHQGHG , QIRUPDWLRQ
 Ä 6lä 2F B.0; E/A % - 7A k?± % - Ue A x B.0; V x = A 24
 &B a15 0 a15 al.HB e9C Z&UG?0+ MP15 ^AEI 46 V 1.6.F-MIO#
 .a1E f40 V 15 1.6.0.n1.9G U15 1.6. P+TE7&UG?#<77A <R!LoeZF 01 OSNP6
 o3/03 5y p 1.6.E70y D+to 2Sis :9 V15 00 MPE7ZO d &S;a 1J.aQv0 D+11 9 ydc
 0RAV 016 Z WA P 0&UG?0 a40 V 4NZV 5Vou 15 1.6. 94.3.E7MU# /&HE ei.
 &RXUVH 'HVFULS WLRQ
 B.0;1° û
 1.
 &RXUVH 'HVFULS WLRQ

--	--

	<p>B.0; k5 >AØAê ò?ò]- -Lu Q § ° _>Aî 7 Š?ø J</p>
<p>%o – W4â Ä (QJOÄLVK 6\OODEXV</p>	<p>ÄN« >].08\$ Ê6+BB' È"r Eilõ Ä Ä &KDSWHU 2YHUYLHZ FUHGLW KRUV 7KH VWDWXV FXUUHQW VLWXDWLFRQDGLGEXIVMORSPH 7KH PDLQ UHVHDUFK FRQWHQWV VJLWDFVLDQGHDDVHF PDQXIDFWXULQJ XQGHU WKH PRGHWXULQJWHUQH W LC 2EMHFWLYHV WDVNV DQG UHTXLUHPHQWV RI WKH FR</p> <p>&KDSWHU (YROXWLRQ RI SURGXFWLFRQPRSWDQG PRGH KRUV (YROXWLRQ RI SURGXFWLFRQPRSWDQVLDQJ IRQGXVW (YROXWLRQ RI SURGXFWLFRQPRSWDQVLDQJ IRQGXVW &RPSXWHU LQWHJUDWHG PDQXIDFWXULQJ &RQFXUUHQW (QJLQHHULQJ /HDQ SURGXFWLRQ \$JLOH PDQXIDFWXULQJ ODVV &XVWRPLJDWLRQ ,QGXVWU\ LQWHOOLJHQW PDQXIDFWXULQJ GLJLW</p> <p>&KDSWHU 'LJLWDO PDQXIDFWXULQJWHFKQRORJHGLWWK 7KH FRQFHSW DQG FRQQRWDWLRQ RI GLJLWDO PDQXI 7KH PHWKRGORJ\ IRU HQWHUSULWLVWR LPSOHPHQW 7HFKQRORJ\ \V\WHP RI WKH GLJLWDO PDQXIDFWXULQ .H\ WHFKQRORJLHV ,QWHJUDWHG SURGXFW LQIRUPDWLRQ PRGHOLQJ D 6\WHP VLPXODWLRQ 2SWLPLJDWLRQ WHFKQRORJ\ \$,</p> <p>&KDSWHU 7KH GLH DQG PROG LQWHOOLJHQWGHVHJQW KRUV ORGHUQ GHVLJQ PHWKRGVRIHOOLJHQW &\$' 6RIWZDUH HQJLQHHULQJ DQG \V\WHP GHYHORS PHQW ,QWHOOLJHQW GHVLJQ WHFKQRORJ\ DQG \V\WHP RI L &RYHU GLH LQWHOOLJHQW GHVLJQ WHFKQRORJ\ DQG)RUJLQJ GLH LQWHOOLJHQW GHVLJQ WHFKQRORJ\ DQG &ORXG SODWIRUP VWDQGDUG SDUWV OLEUDU\ &\$' V\V .H\ FRPPRQ TXHVWLRQV DQG GLVFXVLRQ</p> <p>&KDSWHU &RPSXWHU DLGHG SURFHVV SODQLQJLWDOBX 'HVFULSWLRQ DQG WUDQVIHU RI SURGXFWLFRQPRSWD 7KH RU\ DQG PHWKRG RI SURFHVV SODQLQJ GHFLVLR 3ULQFLSOH DQG \V\WHPDWLF PHWKRG RI FRPSXWHU .QRZOHGJH EDVHG IOH\LEOH SURGXFWLRQ VFKHGXS</p> <p>&KDSWHU 1XPHULFDO FRQWURO PDEGLQJLQJWHGLWLRQV &1& PDFKLQLQJ WHFKQRORJ\ DQG WKH ZRURQFHKRS RI G 0ROG 1& PDFKLQLQJURWIRQDQG \$B3 1& QWHSURVHR *HRPHWULF DQG SK\VLFDO VLPXODWLRQDQG RSWLPL 0ROG PDQXIDFWXULQJ FRVW DVVHVPHQW DQG UHVRX 0DFKLQH WRRO ZRUNVKRS IDFWRUDQGIRUFDWLRQLFRV PDQDJHPHQW</p> <p>&KDSWHU &XUULFXOXP SUDFWLFHKLXVFDU\ DQG GLVFX &XUULFXOXP SUSHUV SUHVHQWDWLRQ GLVFXVLRQ D 9LVLVW &KLQD LQWHUQDWLRQDO GLH\SRG PROG WHFK</p>

<p>B.0;?±"r ÄJ·Ä 5HTXLUHP</p>	<p>ÄB.0;63 h é ? Ä63 h 7 ö1y x = A ¾ ‡ Ä ?±"rFJE÷\B.0;,'-•ÄAØAê>-(£0.DÎD%È¼ Q§ ‡F a7-fFP,'*\²%Ä * p*6AêÄ°_f3+¼3+5 Î)àé# Èjp»-(£B.NÈ.DO:¼3+5 0 f;ŠÎ,'*pÄ @5 Ö* B.2AØAê CNÉAê.</p>
<p>B.0;?±"r Ä(QJÖÄLVK 5HTXLUHP</p>	<p>ÄN«>J·08\$ È6+B B' È"r Eilõ Ä Ä , W LV UHTXLUHG WR PDVWHUVWVWHR HD CEG W LVFW HFR Q PHWKRGRIGLH DQG PROG GLJLWDO WLQHV WOVXIG\H QVL VFDX UHODWHG VFLHQWLILF UHVHDUËK S VDFWLGFR RQ QVWV RFR VFLHQFH DQG WHFKQRORJ\ VVWHPHG HYHORSPHQW *UDGHV FODVV VFWVWLQGDQJ GLVVHUWDWLRQ</p>
<p>B.0;Ct\$Ä ÄJ·Ä 5HVRXUFH</p>	<p>Ä%€Ä%òÄ5•1 Ct É1y Ä Ä ÉQ§ ‡F fFP °_É F- J*(x/n É)à Q\$AiÄÑ fFP*6Aê>°_É :#§ ÖFW-*(x/n &RPSXWHU \$LGHG 'HVLJQ \$GYDQFHG 0DQXIDFWXULQJ 7HFKQRORJ\ ,QWHOOLJHQW 0DQXIDFWXULQJ 7HFKQRORJ\ &RPSXWHU ,QWHJUDWHG 0DQXIDFWXULQJ</p>
<p>B.0;Ct\$Ä Ä(QJÖÄLVK 5HVRXUFH</p>	<p>ÄN«>J·08\$ ÈB' È"r Eilõ Ä Ä 'LH GLJLWDO PDQXIDFWXULQJ WHFKQRORJ\ &KHPLFDO ,C 0RGHUQ GLH DQG PDQXIDFWXULQJ WHFKQRORJ\ -LDR 7RQJUH3UHVV &RPSXWHU \$LGHG 'HVLJQ \$GYDQFHG 0DQXIDFWXULQJ 7HFKQRORJ\ ,QWHOOLJHQW 0DQXIDFWXULQJ 7HFKQRORJ\ &RPSXWHU ,QWHJUDWHG 0DQXIDFWXULQJ</p>
<p>7# 1RWH</p>	