技期刊分　　录总汇

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录

1. 临床医学 域 技期刊分 录 共 1160 1

2. 动化学 域 技期刊分 录 共 315 27

3. 力 域 技期刊分 录 共 139 39

4. 中医 域 技期刊分 录 共 64 44

5. 地 学 域 技期刊分 录 共 642 46

6. 机械工 域 技期刊分 录 共 141 69

7. 建 学 域 技期刊分 录 共 120 75

8. 域 技期刊分 录 共 125 79

9. 地 域 技期刊分 录 共 406 83

10. 天 域 技期刊分 录 共 62 95

11. 植 学 域 期刊分 录 共 142 98

12. 有 属 域 技期刊分 录 共 232 103

13. 学 域 技期刊分 录 共 39 109

14. 冶 工 技术与 属材料 属学与 属工 域 技期刊分 录 共 158 111

15. 材料失效与保护 域 技期刊分 录 共 102 117

16. 汽 工 域 技期刊分 录 共 24 122

17. 域 技期刊分 录 共 90 124

18. 态学 域 技期刊分 录 共 177 127

19. 数学 域 技期刊分 录 共 449 132

20. 材料– 合 域 技期刊分 录 共 369 148

21. 信息 信 域 技期刊分 录 共 75 167

22. 安全 学 域 技期刊分 录 共 65 170
23. 仪器仪 域 技期刊分 录 共 55 173
24. 核 域 技期刊分 录 (共 88) 175
25. 域 技期刊分 录 共 68 178
26. 无机 属材料 域 技期刊分 录 共 79 181
27. 医学与卫 学 技期刊分 录 共 122 184
28. 振动工 域 技期刊分 录 共 87 188
29. 境 学 域 技期刊分 录 共 161 191
30. 仿 学与技术 域 技期刊分 录 共 49 196
31. 域 技期刊分 录 共 43 199
32. 兵器 学与技术(武器工业) 域 技期刊分 录 113 201
33. 地 域 技期刊分 录 共 287 204
34. 岩土力学与工 地 域 技期刊分 录 共 129 211
35. 域 技期刊分 录 共 42 215
36. 护 学 域 技期刊分 录 共 88 217
37. 公 域 技期刊分 录 共 77 220
38. 学 域 技期刊分 录 共 108 223
39. 光学工 和光学 域 技期刊分 录 共 88 227
40. 学 域 技期刊分 录 共 1041 230
41. 中国优 普期刊 录 共 50 262
42. 明 域 技期刊分 录 共 99 263
43. 品 学与工 域 技期刊分 录 共 155 266
44. 图像图形 域 技期刊分 录 (共 195 271
45. 技术 域 技期刊分 录 共 174 284

46. 油、天 气工业 域 技期刊分 录 共 109 290
47. 气工 域 技期刊分 录 共 106 293
48. 图学 域 技期刊分 录 共 71 297
49. 指挥与控制 域 技期刊分 录 共 38 300
50. 子及信息技术 域 技期刊分 录 共 418 302
51. 体 域 技期刊分 录 共 161 315
52. 医学工 域 技期刊分 录 共 72 320
53. 声学 域 技期刊分 录 (共 201) 325
54. “ 感 学与技术” 域我国 技期刊分 录 共 140 334
55. 化工 域 技期刊分 录 共 93 342
56. 农业工 域 技期刊分 录 共 194 347
57. 口 医学 域 技期刊分 录 共 36 357
58. 土壤学 域 期刊分 录 共 175 359

临床医学　域　　技期刊分　　录

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E ù >v1×+û œ0 ¶ U @< 4Ý-$ ‹ F

4Ýa	U @C0&	U @C0&
7	&LLUFXODWRQ	&DUGLRYDVFXODU5HVHDUFK
	(XURSHDQ+HDUWRXUQDO	(XURSHDQ-RXUQDORI+HDUW)DLOXUH
	-RXUQDO RI 7KH $PHULFDQ &RODHJH RI &DUGLRORJ\	-$&& &DUGLRYDVFXODU,QWHUYHQWRQV
	/ ï 3 • È v	-RXUQDO RI 0 RODFXODU DQG &HOOXODU &DUGLRORJ\
	&LLUFXODWRQ5HVHDUFK	-RXUQDO RI 7KH $PHULFDQ 6RFLHWV RI (FKRFDUGLRJUDSK\
	-$&& +HDUW)DLOXUH	
7	&LLUFXODWRQ&DUGLRYDVFXODU,QWHUYHQWRQV	$UWHULRVFOHURVLV 7KURPERVLV DQG 9DVFXODU%LRORJ\
	-0 &DUGLRORJ\	/ ³ &ï ƒ È 0 v
	1DWXUH5HYLHZV&DUGLRORJ\	/ ï Ð ž (0 v
	-$&& &DUGLRYDVFXODU,PDJLQJ	/ ï 3 • ó ³ v
	&LLUFXODWRQ$UUK\WKPLD DQG (OHFWURSK\VLRORJ\	/ ³ 6 , v
	%DVLF5HVHDUFKLQ&DUGLRORJ\	/ ³ ï ƒ o Ò 0 ï (“ 8 v
7	+HDUW	(XURSHDQ+HDUW-RXUQDO&DUGLRYDVFXODU,PDJLQJ
	(XUR3DFH	&OQLFDO5HVHDUFKLQ&DUGLRORJ\
	-RXUQDO RI 7KRUDFLF DQG &DUGLRYDVFXODU 6XUJHU\	(XUR,QWHUYHQWRQ
	$PHULFDQ+HDUW-RXUQDO	3URJUHVVLQ&DUGLRYDVFXODU' LVHDVHV
	&LLUFXODWRQ+HDUW)DLOXUH	-RXUQDO RI &DUGLRYDVFXODU 0 DJQHWF 5HVRQDQFH
	-RXUQDO RI 7KH $PHULFDQ +HDUW $VVRFLDWRQ	/ : 3 B v
	+HDUW5K\WKP	/ - ï —3 • È v
	+\SHUWHQVLRQ	, • ï 3 • È v
	&LLUFXODWRQ&DUGLRYDVFXODU* HQHWFV	/ f ¤ æï —3 • È v
	$PHULFDQ-RXUQDORI &DUGLRORJ\	/ ³ Ó • ï ƒ È 0 v
	&LLUFXODWRQ&DUGLRYDVFXODU,PDJLQJ	/ ï O ú ä ï t È v
	&DUGLRYDVFXODU' LDEHWRORJ\	

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4Ýa	U @C0&	U @C0&
7	&HOOO HWDERODVP	-RXUQDO R &OQLFDO (QGRFULQRORJ\ 0 HWDERODVP
	/ DQFHW LDEHWV (QGRFULQRORJ\	7K\URLG
	1 DWXUH5HYLHZV(QGRFULQRORJ\	7UHQGV LQ (QGRFULQRORJ\ DQG 0 HWDERODVP
	(QGRFULQH5HYLHZV	' LDEHWV
	' LDEHWV&DUH	-RXUQDOR %RQHDQG0 LQHUDO5HVHDUFK
7	0 RO HFXODU0 HWDERODVP	%RQH
	) URQWLHUVLQ1 HXURHQGRFULQRORJ\	' LDEHWV2 EHVLW\ 0 HWDERODVP
	' LDEHWRORJLD	(QGRFULQRORJ\
	2 EHVLW\5HYLHZV	/ • Ó ? Ý æv
	2 EHVLW\	
7	0 RO HFXODUDQG&HOOXODU(QGRFULQRORJ\	2 VWHRSRURVLV,QWHUQDWLRQDO
	0 HWDERODVP &OLQLFDODQG([SHULP HQWDO	' LDEHWV 0 HWDERODVP
	(XURSHDQ-RXUQDOR (QGRFULQRORJ\	-RXUQDOR ' LDEHWV
	(QGRFULQH5HDFWG&DQFHU	' LDEHWF0 HGLFLQH
	&DUGLRYDVFXODU' LDEHWRORJ\	(QGRFULQH
7	,QWHUQDWLRQDO-RXUQDOR 2 EHVLW\	&OLQLFDO(QGRFULQRORJ\
	1 HXURHQGRFULQRORJ\	/ €) ß ä € à W…È v
	%HWW 3UDFWLFH 5HVHDUFK &OLQLFDO (QGRFULQRORJ\ 0 HWDERODVP	/ z µ È v
	-RXUQDOR (QGRFULQRORJ\	³ • • Ó ? Ý æv
	(QGRFULQH3UDFWH	

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4Ýa	U @C0&	U @C0&
7	-$0 $ 3HGLDWULFV	3HGLDWULF5HVHDUFK
	3HGLDWULFV	3HGLDWULF&OLQLFVR1 RUWK$P HULFD
	-RXUQDOR 3HGLDWULFV	: RUOG-RXUQDOR 3HGLDWULFV
	3HGLDWULF&UWLFDO&DUH0 HGLFLQH	/ ~ ³ v
	$UFKLYHVR ' LVHDVHLQ&KLOGKRRG	/ ³ 6 ~ ³ v
7	3DHGLDWULF DQG3HULQDWDO(SLGHP LRORJ\	&XUUHQW2 SLQLRQLQ3HGLDWULFV
	3HGLDWULF5KHXP DWRORJ\	(DUO + XP DQ' HYHORSP HQW
	%0 & 3HGLDWULFV	/ ³ ò Ý ~ ³ v
	1 HRQDWRORJ\	/ ¬ ~ ³ , • v
	3HGLDWULF3XOP RQRORJ\	/ ³ ¬ ~ ³ v
	3HGLDWULF1 HSKURORJ\	
7	3HGLDWULF,QIHFWRXV' LVHDVH-RXUQDO	3HGLDWULF&DUGLRORJ\

4Ýa	U @C0&	U @C0&
	$FWD3DHGLDWLFD	&OOQLFDO3HGLDWLFV
	3HGLDWLF1HXURORJ\	3HGLDWLF+HPDWRORJ\ DQG2QFRORJ\
	3HGLDWLF$QHVWKHVLD	3HGLDWLF(PHUJHQF\ &DUH
	3HGLDWLF'UXJV	-RXUQDORI 3HGLDWLF (QGRFULQRORJ\ 0HWDEROLVP
	(XURSHDQ-RXUQDORI 3HGLDWULFV	3HGLDWLF'HUPDWRORJ\
	3DHGLDWULFV &KLOG+HDOWK	, • ˜ ³ v
	3HGLDWULF5DGLRORJ\	/ ³ Ì ˜ „ W¤ 0
	$PHULFDQ-RXUQDORI 3HULQDWRORJ\	/ Ì ˜ ó ³ v

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4Ýa	U @C0&	U @C0&
7	5DGLRORJ\	(XURSHDQ-RXUQDORI 1XFOHDU0 HGLFLQH DQG0 RODFXODU,PDJLQJ
	(XURSHDQ5DGLRORJ\	-RXUQDORI 1XFOHDU0 HGLFLQH
	,QWHUQDWLRQDO5DGLRORJ\	5DGLRJUDSKLFV
	$PHULFDQ-RXUQDORI 5RHQWJHQRORJ\	1HXURLP DJH
	-$&& &DUGLRYDVFXODU,PDJLQJ	+XP DQ%UDLQ0 DSSLQJ
	-RXUQDORI 0DJQHWF5HVRQDQFH,PDJLQJ	0 DJQHWF5HVRQDQFHLQ0 HGLFLQH
7	$PHULFDQ-RXUQDORI 1HXURUDGLRORJ\	1HXURUDGLRORJ\
	/ Â } 0 v	/ 1 ' õ ¾0 v
	&LUFXODWRQ&DUGLRYDVFXODU,PDJLQJ	5DGLRWHUDS\ DQG2QFRORJ\
	(XURSHDQ-RXUQDORI 5DGLRORJ\	0 DJQHWF5HVRQDQFH,PDJLQJ
	-RXUQDO RI &DUGLRYDVFXODU 0 DJQHWF5HVRQDQFH	&OOQLFDO5DGLRORJ\
	%UDLQ-RXUQDO 5DGLRORJ\	/ â ¤ 0 0 Ó• õ ¾v
7	. RUHDQ-RXUQDORI 5DGLRORJ\	$EGRPLQDO,PDJLQJ
	-RXUQDO RI 7KH $PHULFDQ &RONJH RI 5DGLRORJ\	/ ³ ¤ 0 õ ¾• ì
	/ Â } 6 Ÿ 0 v	3HGLDWULF5DGLRORJ\
	&DQFHU,PDJLQJ	8 OWUDVRXQGLQ0 HGLFLQHDQG%LRORJ\
	$FDGHPLF5DGLRORJ\	, • Â } 0 v
	5DGLRORJLF&OOQLFVRI 1RUWK$PHULFD	/ Â } ¤ 0 0 ½ v
	-RXUQDO RI &RPSXWHU $VVLVWHG 7RPRJUDSK\	¬ Â } 0 v
	$FDG5DGLRJLFD	& Â } 0 v
	&OOQLFDO,PDJLQJ	/ ³ ¤ 0 õ ¾0 v
	-RXUQDORI 1HXURUDGLRORJ\	Â } 0 ¬ Ì
	0 DJQHWF5HVRQDQFH ,PDJLQJ &OOQLFVRI 1RUWK$PHULFD	¨ k ò N ¾
		³ • ¤ 0 Â } 0 v

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4Ýa	U @C0&	U @C0&
7	-$0 $ 2 VRODU QJRORJ\ + HDG 1 HFN 6XUJHU	2 VRODU QJRORJ\ + HDG DQG 1 HFN 6XUJHU
	/ DU QJRVFRSH	2 VRORJ\ 1 HXURVRORJ\
	+ HDULQJ 5 HVHDUFK	/ ™• S È @ó ³ v
	5 KLQRORJ\	(DUDQG + HDULQJ
7	: RUOG -RXUQDO RI 2 VRUKLQRODU QJRORJ\ + HDG DQG 1 HFN 6XUJHU	,QVHUQDWRQDO IRUXP RI $ COHUJ\ 5 KLQRORJ\
	-RXUQDO RI 2 VRODU QJRORJ\ + HDG 1 HFN 6XUJHU	, • ™• S È @ó ³ v
	$ P HULFDQ -RXUQDO RI 5 KLQRORJ\ $ COHUJ\	/ ™³ 0 v
	(XURSHDQ $ UFKLYHV RI 2 VR 5 KLQR / DU QJRORJ\	-$ 5 2 -RXUQDO RI 7 KH $ VVRFLDWRQ IRU 5 HVHDUFK LQ 2 VRODU QJRORJ\
	&OLQLFDO 2 VRODU QJRORJ\	
7	2 VRODU QJRORJLF &OLQLFVRI 1 RUWK $ P HULFD	2 5 / -RXUQDO IRU 2 VR 5 KLQR / DU QJRORJ\ + HDG DQG 1 HFN 6XUJHU
	$ P HULFDQ -RXUQDO RI 2 VRODU QJRORJ\	$ FWD 2 VR / DU QJRORJLFD
	° O 0 ƒ] 4 …È v	(XURSHDQ $ QQDOV RI 2 VRUKLQRODU QJRORJ\ + HDG DQG 1 HFN ' LVHDVHV
	$ QQDOV RI 2 VRORJ\ 5 KLQRORJ\ DQG / DU QJRORJ\	&XUUHQW 2 SLQLRQ LQ 2 VRODU QJRORJ\ + HDG DQG 1 HFN 6XUJHU
	+ HDG DQG 1 HFN -RXUQDO IRU 7 KH 6FLHQFHV DQG 6 SHFLDOWHV RI 7 KH + HDG DQG 1 HFN	-RXUQDO RI 9 RLFH
	,QVHUQDWRQDO -RXUQDO RI 3HGLDWLF 2 VRUKLQRODU QJRORJ\	-RXUQDO RI 7 KH $ P HULFDQ $ FDGHP \ RI $ XGLRORJ\
	V J Ö 0 ™• d 0 q	-RXUQDO RI 9 HWWEXODU 5 HVHDUFK (TXLOEULXP 2 ULHQWDWRQ
	$ XGLRORJ\ DQG 1 HXUR 2 VRORJ\	-RXUQDO RI / DU QJRORJ\ DQG 2 VRORJ\
	$ P HULFDQ -RXUQDO RI $ XGLRORJ\	,QVHUQDWRQDO -RXUQDO RI $ XGLRORJ\

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4Ýa	U @C0&	U @C0&
7	$ P HULFDQ -RXUQDO RI 2 SKWKDOP RORJ\	3 URJUHVV LQ 5 HWQDODQG (\ H 5 HVHDUFK
	%ULWWK -RXUQDO RI 2 SKWKDOP RORJ\	/ d ³ v
	,QYHWWJDWYH 2 SKWKDOP RORJ\ 9 LVXDO 6FLHQFH	([SHULP HQWDO (\ H 5 HVHDUFK

4Ýa	U @C0&	U @C0&
	-$ 0 $ 2 SKVKDOP RORJ\	&OQLFDO DQG ([SHULP HQWDO 2 SKVKDOP RORJ\
	2 SKVKDOP RORJ\	
7	2 FXODU,P P XQRORJ\ DQG,QIODP P DWRQ	5 HWQD 7 KH -RXUQDO RI 5 HWQDO DQG 9 HWHRXV' LVHDVHV
	&XUUHQW(\ H5 HVHDUFK	$ FWD2 SKVKDOP RORJ LFD
	-RXUQDORI &DWDUDFWDQG5 H UDFWYH6XUJHLV	* UDH HV $ UFKLYH) RU &OQLFDO DQG ([SHULP HQWDO2 SKVKDOP RORJ\
	-RXUQDORI * ODXFRP D	(\ H DQG9 LVLRQ
	2 FXODU6XUJDFH	-RXUQDORI 5 H UDFWYH6XUJHLV
7	/ ¬ r d ³ v	%0 & 2 SKVKDOP RORJ\
	&XUUHQW2 SLQLRQ LQ2 SKVKDOP RORJ\	&RUQHD
	0 ROHFXODU9 LVLRQ	$ QQXDO5 HYLHZ RI 9 LVLRQ6FLHQFH
	2 SKVKDOP LF5 HVHDUFK	(\ H
	9 LVLRQ5 HVHDUFK	,QWHUQDWRQDO-RXUQDORI 2 SKVKDOP RORJ\
	/ d È v	2 SKVKDOP RORJ LFD
	/ d ³ ¤ 0 v (• Q	2 SWRP HWU DQG9 LVLRQ6FLHQFH
	/ d Ê › ƒ Ê „ ³ 0 v	6XUYH\ RI 2 SKVKDOP RORJ\
	/ d ó d œd È v	7UDQVODWRQDO 9 LVLRQ 6FLHQFH 7HFKQRORJ\

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4Ýa	U @C0&	U @C0&
7	&KHWW	3HGLDWUF 3XOP RQRORJ\
	(XURSHDQ5 HVSLUDWRU -RXUQDO	6DUFRLGRVLV9 DVFXODUV DQG' LLIXVH/ XQJ ' LVHDVHV
	7KRUD[	&DQDGLDQ5 HVSLUDWRU -RXUQDO
	$ P HULFDQ -RXUQDO RI 5 HVSLUDWRU DQG &UWWFDO&DUH0 HGLFLQH	/ â ä k v
	/ DQFHW5 HVSLUDWRU 0 HGLFLQH	
7	$ P HULFDQ-RXUQDORI 5 HVSLUDWRU &HOODQG 0 ROHFXODU%LRORJ\	-RXUQDORI + HDUWDQG/ XQJ 7UDQVSODQWDWRQ
	-RXUQDORI $ VWKP D	$ QQDOVRI 7KRUDFLF6XUJHLV
	6OHHS DQG%UHDWKLQJ	(XURSHDQ-RXUQDORI &DUGLR 7KRUDFLF 6XUJHLV
	$ P HULFDQ -RXUQDO RI 3K\ VLRORJ\ / XQJ &HOOXODUDQG0 ROHFXODU3K\ VLRORJ\	6HP LQDUV LQ 5HVSLUDWRU DQG &UWWFDO &DUH0 HGLFLQH
7	³ • k v	-RXUQDORI 7KRUDFLF2 QFRORJ\
	/ ³ k 0 7 ³ v	5HVSLUDWRQ
	/ XQJ &DQFHU	/ XQJ
	5HVSLUDWRU 0 HGLFLQH	3XOP RQRORJ\
	,QWHUQDWRQDO -RXUQDO RI &KURQLF	([SHULP HQWDO/ XQJ 5HVHDUFK

4Ýa	U @C0&	U @C0&
	2 EWWKFWLYH 3XOP RQDU\ ' LVHDVH	
	%0 & 3XOP RQDU\ 0 HGLFLQH	&XUUHQW2 SLQLRQ LQ 3XOP RQDU\ 0 HGLFLQH
	&OLQLFDO5 HVSLUDWRU\ -RXUQDO	,QWHUQDWRQDO-RXUQDORI 7XEHUFXORVLV DQG / XQJ ' LVHDVH
	-RXUQDORI 7KRUDFLF ' LVHDVH	+ HDUW / XQJ
	5HVSLURORJ\	3HGLDWUF $ OHUJ\ ,P P XQRORJ\ DQG 3XOP RQRORJ\

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4Ýa	U @C0&	U @C0&
7	* DWWRHQWHURORJ\	$ P HULFDQ-RXUQDORI * DWWRHQWHURORJ\
	* XW	/ È $ v
	1 DWXUH 5HYLHZ V * DWWRHQWHURORJ\ + HSDWRORJ\	/) ƒ È v
	+ HSDWRORJ\	/ È $ • D v
	-RXUQDORI + HSDWRORJ\	/ È $ ó ³ v
	/ DQFHW* DWWRHQWHURORJ\ + HSDWRORJ\	
7	&OLQLFDO* DWWRHQWHURORJ\ DQG+ HSDWRORJ\	* XW0 LFUREHV
	$ OP HQWDU\ 3KDUP DFRORJ\ 7KHUDSHXWLFV	-RXUQDORI ' LJHWWLYH' LVHDVHV
	(QGRVFRS\	* DWWRHQWHURORJ\ 5HSRUW
	* DWWRLQWHWWLQDO(QGRVFRS\	' + È 0
	-RXUQDORI &URKQV &RODWLV	, •) é È v
	-RXUQDORI * DWWRHQWHURORJ\	/ ' + ó ³ v
7	,QIOP P DWRU\ %RZ HO LVHDVHV	1 HXURJ DWWRHQWHURORJ\ DQG 0 RWLODW
	/ LYHU,QWHUQDWRQDO	(QGRVFRSLF 8 OWUDVRXQG
	+ HOFREDFWHU	/ ¯ ¦ È v
	+ HSDWRORJ\ ,QWHUQDWRQDO	/) é ó ³ v
	* DWWLF &DQFHU	/ T ¹ ó ³ v
	-RXUQDO RI * DWWRHQWHURORJ\ DQG + HSDWRORJ\	' + È 0 ä) È 0 v
	' LJHWWRQ	) ƒ
	&OLQLFDO DQG 7UDQVODWRQDO * DWWRHQWHURORJ\	¬) ƒ È v
	3DQFUHDWRORJ\	+ ó 0 + • ï •
	-RXUQDO RI 1HXURJ DWWRHQWHURORJ\ DQG 0 RWLODW	/ ³ T ¹ ó ³ v
	7KHUDSHXWLF $ GYDQFHV LQ* DWWRHQWHURORJ\	³ • È $ È v
	/ LYHU7 UDQVSODQWDWRQ	

E/” 5 +û œ0 ¶ U @<4Ý-$ ‹ F

4Ýa	U @C0&	U @C0&
7	1 DVXUH5 HYLHZ V1 HXURVFLHQFH	6OHHS0 HGLFLQH5 HYLHZ V
	/ DQFHW1 HXURORJ\	1 HXUR 2 QFRORJ\
	1 DVXUH5 HYLHZ V1 HXURORJ\	$ QQDOVRI 1 HXURORJ\
	$ FVD1 HXURSDWKRORJLFD	1 HXURORJ\
	%HKDYLRUDODQG%UDLQ6FLHQFHV	-RXUQDORI 1 HXURORJ\ 1 HXURVXUJHLV DQG 3V\FKLDWV
	7UHQGVLQ&RJQLWYH6FLHQFHV	1 HXURSDWKRORJ\ DQG $SSOLHG 1 HXURELRORJ\
	$ QKHLP HLV ' HP HQWD	6WRNH
	-$0 $ 1 HXURORJ\	3URJUHVVLQ1 HXURELRORJ\
	%UDLQ	
7	3DLQ	1 HXURVFLHQFH%XOOHWQ
	7UDQVODWRQDO6WRNH5HVHDUFK	-RXUQDORI 1 HXURORJ\
	-RXUQDORI 1 HXURLQIODP P DWRQ	-RXUQDORI 1 HXURVXUJHLV
	-RXUQDORI 6WRNH	1 HXUDO5 HJHQHUDWRQ5 HVHDUFK
	(SLOHSVLD	/ Š < ³ v
	7UDQVODWRQDO1 HXURGHJHQHUDWRQ	/ Š < ó ³ v
	1 HXURVXUJHLV	&KLQHVH1 HXURVXUJLFDO-RXUQDO
	69 1 6WRNHDQG9 DVFXODU1 HXURORJ\	-RXUQDORI 1 HXURVFLHQFH
	,QWHUQDWRQDO-RXUQDORI 6WRNH	-RXUQDO RI &HUHEUDO %ORRG) ORZ DQG 0 HWDERODVP
	(XURSHDQ-RXUQDORI 1 HXURORJ\	$ FVD1 HXURSDWKRORJLFD&RP P XQLFDWRQV
7	&OLQLFDO1 HXURSK\ VLRORJ\	%UDLQ DQG%HKDYLRU
	-RXUQDORI 1 HXURWUDXP D	: RUOG1 HXURVXUJHLV
	6OHHS0 HGLFLQH	&OLQLFDO1 HXURORJ\ DQG1 HXURVXUJHLV
	$ P HULFDQ-RXUQDORI 1 HXURUDGLRORJ\	%UDWK-RXUQDORI 1 HXURVXUJHLV
	-RXUQDORI 1 HXUR 2 QFRORJ\	/ û ¤ 0 0 —³ 0 v
	-RXUQDORI 1 HXURVXUJHLV 6SLQH	&RJQLWYH DQG%HKDYLRUDO1 HXURORJ\
	%UDLQ5 HVHDUFK	/ - ï —3 • È v
	1 HXURVXUJLFDO) RFXV	/ ³ —3 • È v
	&HUHEURYDVFXODU' LVHDVHV	/ ³ Š < : Š …È v
	1 HXURP RGXODWRQ	/ Š < ¤ 0 v
	) URQWHLVLQ1 HXURORJ\	&OLQLFDO1 HXURSDWKRORJ\
	1 HXURFULWFDO&DUH	1 HXURVFLHQFHV
	1 HXURVXUJLFDO5 HYLHZ	/ ³ ¡ / v
	1 HXURUDGLRORJ\	³ • Š < È 0 Š < ó ³ 0 v
	(SLOHSV\ %HKDYLRU	/ ³ ³ { Š < ó ³ v
	%0 & 1 HXURORJ\	, • Š < ó ³ v
	-RXUQDORI 1 HXURVXUJHLV 3HGLDWULFV	

E ½Ý0 œ0 ¶ U @<4Ý-$ ‹ F

4Ýa	U @C0&	U @C0&
7	$P HUFDQ -RXUQDO RI 2EVWHWULFV DQG * \QHFRORJ\	%2* $Q ,QWHUQDWLRQDO -RXUQDO RI 2EVWHWULFV DQG* \QHFRORJ\
	) HWDOV DQG 6\VWHPDWLFV	2EVWHWULFV DQG* \QHFRORJ\
	* \QHFRORJLF 2QFRORJ\	/ ! ³ v
	+ XP DQ 5HSURGXFWLRQ	5HSURGXFWLRQ
7	0 RGHUQ+ XP DQ 5HSURGXFWLRQ	3DFHQWD
	-RXUQDO RI * \QHFRORJLF 2QFRORJ\	5HSURGXFWLYH %LRP HGLFLQH2 QOLQH
7	0 HQRSDXVH 7KH -RXUQDO RI 7KH 1 RUWK $P HULFDQ0 HQRSDXVH6RFLHW\	%LRORJ\ RI 5HSURGXFWLRQ
	0 DWXULWDV	/ ³ ¬ ³ 0 ! ³ v
	&RQWUDFHSWLRQ	
7	/ “ 0 ¥ s v	6HP LQDU\LQ3HULQDWRORJ\
	-RXUQDO RI 0 LQLP DOO ,QYDVLYH * \QHFRORJ\	¬ ! ³ v
	/ ! ¤ 0 v	3UHQDWDO LDJQRVLV
	&XUUHQW 2SLQLRQ LQ 2EVWHWULFV * \QHFRORJ\	-RXUQDO RI 5HSURGXFWLYH,P P XQRORJ\
	&OP DFWHUF	,QWHUQDWLRQDO -RXUQDO RI * \QHFRORJLFDO 3DWKRORJ\
	£ Ý ! ³) º	,QWHUQDWLRQDO -RXUQDO RI * \QHFRORJLFDO &DQFHU
	,QWHUQDWLRQDO -RXUQDO RI * \QHFRORJ\ 2EVWHWULFV	“ ¤ 0 v
	5HSURGXFWLYH %LRORJ\ DQG(QGRFULQRORJ\	³ • ! ³ 0 v

E6õ,Z œ0 ¶ U @<4Ý-$ ‹ F

4Ýa	U @C0&	U @C0&
7	/ DQFHU2 QFRORJ\	&DQFHU&HOO
	&OLQLFDO&DQFHU5HVHDUFK	&DQFHU' LVFRYHU\
	-RXUQDO RI &OLQLFDO2 QFRORJ\	0 RGHUQ&DQFHU
	&D$ &DQFHU-RXUQDO RU&OLQLFDO	2QFRJHQH
	1DWXUH5HYLHZV&DQFHU	/ 6 Ÿ v
	1DWXUH5HYLHZV&OLQLFDO2 QFRORJ\	&KLQHVH-RXUQDO RI &DQFHU5HVHDUFK
	$QQDOV RI 2QFRORJ\	&DQFHU%LRORJ\ 0 HGLFLQH
	-$0 $ 2QFRORJ\	&DQFHU&RP P XQLFDWLRQV IRUP HUVWZH! &KLQHVH-RXUQDO RI &DQFHU
	&DQFHU5HVHDUFK	
7	6HP LQDU\LQ&DQFHU%LRORJ\	&DQFHU,P P XQRORJ\ 5HVHDUFK
	/ HXNHP LD	-1 &, -RXUQDO RI 7KH 1DWLRQDO &DQFHU ,QVWLWXWH

4Ýa	U @C0&	U @C0&
	&DQF+U	&DQF+U/ HWWLV
	(XURSHDQ-RXUQDORI &DQF+U	%ULWLVK-RXUQDORI &DQF+U
	-RXUQDORI 7KRUDFLF2QFRORJ\	%UHDVW&DQF+U5HVHDUFK
	1HXUR2QFRORJ\	&DQF+U7UHDWPHQW6HQVLWLYLWLHV
	6\VWP &HOO	/ ³ 6Ÿ, •
	-RXUQDORI +HP DWRORJ\ 2QFRORJ\	
7	, • 6Ÿ0v	-RXUQDORIRU,PPXQRWKHUDS\ RI &DQF+U
	-RXUQDORI 3DWKRORJ\	/ ³ 6Ÿ
	&DQF+UDQG0HWDVWDWLV5HYLHZV	/ ³ Ë v
	/ ³ v	2QFRORJLVW
	,QWHUQDWRQDO -RXUQDO RI 5DGLDWRQ 2QFRORJ\ %LRORJ\ 3K\VLFV	&DQF+U6FLHQFH
	/ 6Ÿ½- v	-RXUQDORI 7KH1DWRQDO&RP SUHKHQVLYH &DQF+U1HWZRUN
	/ Â} 6Ÿ0v	&DQF+U (SLGHPLRORJ\ %LRP DUNHUV 3UHYHQWLRQ
	0 RGHUQ2QFRORJ\	-RXUQDO RI ([SHULP HQWDO &OLQLFDO &DQF+U5HVHDUFK
	$QQDOVRI 6XUJLFDO2QFRORJ\	2QFRLP PXQRORJ\
	2QFRORJ\ DQG7UDQVODWRQDO HGLFLQH	¬ 6Ÿ0v
	/ ³ 6Ÿ“ ^ - ov	0 RGHUQ&DQF+U7KHUDSHXWFV
	6Ÿ	2QFRJHQHWLV
	¬ 6Ÿv	,QWHUQDWRQDO-RXUQDORI &DQF+U
	&DQF+UV	%RRG&DQF+U-RXUQDO
	7UHQGVLQ&DQF+U	(-62

E' Z L0 œ0 ¶ U @<4Ý-$ ‹ F

4Ýa	U @C0&	U @C0&
7	$QQDOVRI 6XUJHU\	$QQDOVRI 3DWKF6XUJHU\
	%%XUQV DQG7UDXP D	$P HULFDQ-RXUQDORI 6XUJHU\
	: RXQG5HSDLUDQG5HJHQHUDWRQ	0 LFURVXUJHU\
	%XUQV	$P HULFDQ -RXUQDO RI (P HUJHQF\ 0 HGLFLQH
	3DWKF DQG5HFRQVWUXFWLYH6XUJHU\	
7	-RXUQDO RI 3DWKF 5HFRQVWUXFWLYH DQG $HVWKHWF6XUJHU\	-RXUQDORI 5HFRQVWUXFWLYH0 LFURVXUJHU\
	/ n d v	-RXUQDO RI 7LVVXH (QJLQHHULQJ DQG 5HJHQHUDWLYHP HGLFLQH
	/ ü ù ó ³ v	,QWHUQDWRQDO-RXUQDORI / RZ HU([WUHP LWV Z RXQGV
	-RXUQDORI %XUQ&DUHDQG5HVHDUFK	-RXUQDORI 6XUJLFDO5HVHDUFK
	: RXQGV$ &RP SOLQXP RI &OLQLFDO	,QWU ,QWHUQDWRQDO-RXUQDORI 7KH&DUH

4Ýa	U @C0&	U @C0&
	5 HV-DUFK DQG 3 UDFWLFH	RI 7 KH, QWXUHG
7	-RXUQDORI &RVP HWLF DQG/ DVHU 7 KHUDS\	-RXUQDO RI 3 ODVWLF 6 XUJHU\ DQG + DQG 6 XUJHU\
	(XURSHDQ &HOOV 0 DVHUDOV	$ GYDQFHV LQ: RXQG &DUH
	%LRP DVHUDOV	5 HJHQHUDWLYH 0 HGLFLQH
	/ —d v	,QVHUQDWLRQDO -RXUQDO RI &OLQLFDO DQG ([SHULP HQWDO 3 DWKRORJ\
	/ ³ ô ù ó ³ v	%ULWLVK -RXUQDORI 6 XUJHU\
	/ ³ 7 Ù ó ³ v	-RXUQDORI 7 LVVXH(QJLQHHULQJ
	' HUP DWRORJLF 6 XUJHU\	,QVHUQDWLRQDO RXQG -RXUQDO
	-RXUQDO RI 2 UWKRSDHGLF 6 XUJHU\ DQG 5 HV-DUFK	-RXUQDORI &RVP HWLF ' HUP DWRORJ\
	$ HVWKHWLF 3 ODVWLF 6 XUJHU\	3 ODVWLF 6 XUJHU\

E ª ˜ L 0 œ0 ¶ U @<4Ý-$ ‹ F

4Ýa	U @C0&	U @C0&
7	3 ODVWLF DQG 5 HFRQVWUXFWLYH 6 XUJHU\	-RXUQDORI 3 ODVWLF 5 HFRQVWUXFWLYH DQG $ HVWKHWLF 6 XUJHU\
	/ ü ù ó ³ v	$ QQDOVRI 3 ODVWLF 6 XUJHU\
	$ HVWKHWLF 6 XUJHU\ -RXUQDO	/ n d v
7	&OLQLFVLQ 3 ODVWLF 6 XUJHU\	-RXUQDORI 7 LVVXH(QJLQHHULQJ DQG 5 HJHQHUDWLYH 0 HGLFLQH
	¦] Q 0 7 Ù ó ³ v	-$ 0 $) DFLDO 3 ODVWLF 6 XUJHU\
	-RXUQDORI 7 LVVXH(QJLQHHULQJ	/ ³ 7 Ù ó ³ v
	-RXUQDORI &UDQLRI DFLDO 6 XUJHU\	-RXUQDORI 5 HFRQVWUXFWLYH 0 LFURVXUJHU\
	0 LFURVXUJHU\	&OHVV 3 DODVH &UDQLRI DFLDO -RXUQDO
7	/ ³ % ü ù ó ³ v	$ UFKLYHVRI) DFLDO 3 ODVWLF 6 XUJHU\
	) DFLDO 3 ODVWLF 6 XUJHU\	&DQDGLDQ -RXUQDORI 3 ODVWLF 6 XUJHU\
	-RXUQDORI &RVP HWLF DQG/ DVHU 7 KHUDS\	/ ¤ 0 %0 % v

E L 0 œ52 >0 ¶ U @<4Ý-$ ‹ F

4Ýa	Å -	U @C0&	, 661	&1
7		$0 (5,&$1 -2851$/ 2) 75$163/ $17$7,21		
		11/ 6 2) 685* (5<		
		%5,7,6+ -2851$/ 2) 685* (5<		
		(1' 26&23<	;	
		+(3$72%/ ,$5< 685* (5< $1' 1875,7,21		
		,17(51$7,21$/ -2851$/ 2) 685* (5<		
		-$0 $ 685* (5<		
		/ ,9(5 75$163/ $17$7,21		

4Ýa	Å -	U @C0&	, 661	&1
		685*(5<		
		75$163/$17$7,21		
		$&7$257+23$(',&$		
		$0(5,&$1-2851$/2)632576 0(',&,1(		
		-2851$/2)63257$1'+($/7+ 6&,(1&(		
		%ƃ5,7,6+-2851$/2)632576 0(',&,1(		
		63,1(		
		$1(67+(6,2/2*<		
		%ƃ5,7,6+-2851$/2)$1$(67+(6,$		
		(8523($1852/2*<		
		-2851$/2)852/2*<		
		%ŕ8,17(51$7,21$/		
		/ ³ ¬ ó ³ v		5
		/ ó ³ v		5
		/ È$ó ³ v		5
		/ '+ó ³ v		5
		/ € ³ v		5
		/ —d € ³ v		5
		/ ?µó ³ v		5
		/ v ’ - v		5
7		-2851$/2)9$6&8/$5685*(5<		
		$0(5,&$1-2851$/2)685*(5<		
		$0(5,&$1-2851$/2)685*,&$/ 3$7+2/2*<		
		11/62)685*,&$/21&2/2*<		
		11/62)7+25$&,&685*(5<		
		$57+526&23<7+(-2851$/2) $57+526&23,&$1'5(/$7(' 685*(5<		
		%ƒ21(-2,17-2851$/		
		',*(67,9((1'26&23<		
		(8523($1-2851$/2)9$6&8/$5 $1'(1'29$6&8/$5685*(5<		
		-$0$272/$5<1*2/2*<+($' 1(&.685*(5<		
		-2851$/2)%ƒ21($1'-2,17 685*(5<$0(5,&$192/80(		
		-2851$/2)1(852685*(5<		
		-2851$/2)7+($0(5,&$1&2//(*(2)685*(216		
		1(852685*(5<	;	
		:25/'-2851$/2)(0(5*(1&< 685*(5<		
		:25/'-2851$/2)685*,&$/ 21&2/2*<		
		(8523($163,1(-2851$/		
		)227$1'$1./(685*(5<		
		-2851$/2)$57+523/$67<		

4Ýa	Å -	U @C0&	, 661	&1
		-2851$/ 2) 257+23$(' ,& 632576 3+<6,&$/ 7+(5$3<		
		,17(51$7,21$/ 257+23$(' ,&6		
		6325760(' ,&,1(		
		6&$1' ,1$9,$1 -2851$/ 2) 0(' ,&,1(6&,(1&(,1 632576		
		-2851$/ 2) $7+/(7,&75$,1,1*		
		(;(5&,6($1' 63257 6&,(1&(6 5(9,(: 6		
		63,1(-2851$/		
		-2851$/ 2) 3+<6,27+(5$3<		
		1(67+(6,$		
		3$,1		
		852/2*<		
		35267$7(		
		: 25/' -2851$/ 2) 852/2*<		
		-2851$/ 2) (1' 2852/2*<		
		75$1631$17$7,21 5(9,(: 6	;	
		1(3+52/2*<',$/<6,6 75$1631$17$7,21		
		/ ³ T ¹ ó ³ v		5
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		/ Tó³Íì0v (•Q		5
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		/ Íó³v	;	5
		,•ðª0v		5
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7		11/62) &$5' ,27+25$&,& 685*(5<	;	
		$6,$1 -2851$/ 2) 685*(5<		
		%623(1		
		&2/25(&7$/ ',6($6(		
		&855(17352%(06,1 685*(5<		
		',6($6(62) 7+(&2/21 5(&780		
		(-62		
		,17(51$7,21$/ -2851$/ 2) &20387(5$66,67(' 5$' ,2/2*< $1' 685*(5<		
		-2851$/ 2) *$6752,17(67,1$/ 685*(5<	;	
		-2851$/ 2) +($57$1' /81* 75$1631$17$7,21		
		-2851$/ 2) 1(852,17(59(17,21$/ 685*(5<		
		-2851$/ 2) 1(852/2*< 1(852685*(5<$1' 36<&+,$75<		
		-2851$/ 2) 1(852685*,&$/ $1(67+(6,2/2*<		
		-2851$/ 2) 6+28/'(5$1' (/%2: 685*(5<		
		-2851$/ 2) 685*,&$/ (' 8&$7,21		

4Ýa	Å -	U @C0&	, 661	&1
		-2851$/ 2) 7+($0(5,&$1 $&$' (0 < 2) 257+23$(' ,& 685*(216	;	
		-2851$/ 2) 9$6&8/$5 685*(5< 9(1286$1' /<03+$7,& ',625'(56	;	
		.1((685*(5< 632576 75$80$72/2*<$57+526&23<		
		2%(6,7< 685*(5<		
		6+2&.		
		685*(5<)25 2%(6,7<$1' 5(/$7(' ',6($6(6		
		685*,&$/(1' 26&23<$1' 27+(5 ,17(59(17,21$/ 7(&+1,48(6		
		7(&+1,48(6,1 &2/2352&72/2*<		
		:25/' -2851$/ 2) 685*(5<		
		%0&086&8/26.(/(7$/ ',625'(56		
		&/,1,&$/ %20(&+$1,&6		
		*$,7 326785(		
		-2851$/ 2) 257+23$(' ,&5(6($5&+		
		3+<6,&$/ 7+(5$3<,1 63257	;	
		-2851$/ 2) 7+(,17(51$7,21$/ 62&,(7< 2) 6325761875,7,21		
		-2851$/ 2) 6325766&,(1&(6		
		-2851$/ 2) 675(1*7+ $1' &21',7,21,1* 5(6($5&+		
		-2851$/ 2) 6&,(1&($1' 0(',&,1(,1 63257		
		,17(51$7,21$/ -2851$/ 2) 6325760(',&,1(		
		,17(51$7,21$/ -2851$/ 2) 6325763+<6,2/2*<$1' 3(5)250$1&(		
		(;(5&,6(,00812/2*<5(9,(:		
		(8523($1 -2851$/ 2) 63257 6&,(1&(		
		%2/2*<2) 63257	;	
		267(2$57+5,7,6$1' &$57,/$*(		
		-2851$/ 2) 3(' ,$75,& 257+23$(' ,&6		
		-2851$/ 2) 257+23$(' ,&75$80$		
		$1(67+(6,$ $1' 1/*(6,$		
		(8523($1 -2851$/ 2) 1(67+(6,2/2*<		
		-2851$/ 2) &/,1,&$/ $1(67+(6,$		
		5(*,21$/ $1(67+(6,$ $1' 3$,1 0(',&,1(		
		,17(51$7,21$/ -2851$/ 2) 852/2*<		
		75$16/$7,21$/ $1' 52/2*<$1' 852/2*<		
		35267$7(&$1&(5$1' 35267$7,& ',6($6(6		
		1(852852/2*<$1' 852'<1$0,&6		
		-2851$/ 2) 6(;8$/ 0(',&,1(		

4Ýa	Å -	U @C0&	, 661	&1
		(8523($1 852/2*<21&2/2*<		
		1$785(5(9,(: 6852/2*<		
		&855(17 23,1,21 ,1 25*$1 75$163/$17$7,21		
		(;3(5,0(17$/ $1' &/,1,&$/ 75$163/$17$7,21		
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		) é ¯ ó ³ v		5
		/ € 0 ‘ ó ³ v		5
		/ ³ ŒX Œ= v	;	5
		, • € ³ v		5
		/ ‘ ó ³ v (• Q	;	5
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4Ýa	Å -	U @C0&	, 661	&1
7		1(: (1*/$1' -2851$/ 2) 0(',&,1(		
		-0 -2851$/ 2) 7+($0(5,&$1 0(',&$/ $662&,$7,21		
		7+(/$1&(7		
		%0 - %5,7,6+ 0(',&$/ -2851$/	;	
		7+(/$1&(7 5(63,5$725< 0(',&,1(		
		$0(5,&$1 -2851$/ 2) 5(63,5$725< $1' &5,7,&$/ &$5(0(',&,1(	;	
		,17(16,9(&$5(0(',&,1(		
		-2851$/ 2) 75$9(/ 0(',&,1(		
		7+(/$1&(7',*,7$/ +($/7+		
		1$785(5(9,(: 6',6($6(35,0(56	;	
		11/62) ,17(51$/ 0(',&,1(		
		-0 ,17(51$/ 0(',&,1(		
		&5,7,&$/ &$5(		
		-2851$/ 2) &$&+(;,$ 6$5&23(1,$$1' 086&/(		
		$*,1* &(//		
		-2851$/ 2) ,17(51$/ 0(',&,1(		
		0,/,7$5< 0(',&$/ 5(6($5&+		
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4Ýa	Å -	U @C0&	, 661	&1
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		/ „ ð ¤ 0 v		5
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		3/260(' ,&,1(		
		&+(67		
		$*($1' $*(,1*		
		$*,1* $1' ' ,6($6(		
		,0081,7< $*(,1*		
		-$0$1(7: 25. 23(1		
		$*(,1* 5(6($5&+ 5(9,(: 6		
		0$<2 &/,1,&352&(' ,1*6		
		75$16/$7,21$/ 5(6($5&+		
		&5,7,&$/ &$5(0(' ,&,1(		
		5(686&,7$7,21		
		(0(5*(1&,$6		
		-2851$/ 2) 7+($0(5,&$1 *(5,$75,&662&,(7<		
		,17(51$7,21$/ 36<&+2*(5,$75,&6		
		0(' ,&$/ -2851$/ 2) 8675/,$	;	
7		&2&+5$1(' 7%$6(2) 6<67(0$7,&5(9,(: 6	;	
		-2851$/ 2) ,17(16,9(&$5(		
		: 25/' -2851$/ 2) (0(5*(1&< 685*(5<		
		11/62) (0(5*(1&< 0(' ,&,1(		
		$0(5,&$1 -2851$/ 2) *(5,$75,& 36<&+,$75<		
		-2851$/ 2) 7+($0(5,&$1 0(' ,&$/ ' ,5(&7256$662&,$7,21		
		*(526&,(1&(		
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		/ ³ ¬ • ³ v		5
		ä Þ Ö0 0 q ¤ 0 Q		5
		' º ¤ ³ Ö0 0 q		5
		/ æ³ ¤ 0		5
		ê 0 q ¤ 0 Q		5
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4Ýa	Å -	U @C0&	, 661	&1
		/ æ³ ¤ • v		5
		z 8 Ö 0 0 q ¤ 0 Q	;	5
		, • • ³ v		5
		/ ³ ¤ 0 ³ 0] 0 q	;	5
		¤ 0 Y N “ 0 q		5
		/ - • v ’ ...È v		5
		< Ö 0 0 q ¤ 0 Q		5
		/ ³ „ W¤ 0		5
		• ³ „ 7 v		5
		= ’ Ö 0 0 q ‘ ö ³ 0 0 ¤ 0 Q		1
		/ ³ ¤ 0 • a v (• Q		5
		} • Ö 0 0 q ¤ 0 Q	;	5
7		11/62),17(16,9(&$5(		
		1(67+(6,$ &5,7,&$/ &$5(3$,10(',&,1(		
		(8523($1 5(9,(: 2) $*,1* $1' 3+<6,&$/ $&7,9,7<		
		11/6$&$' (0 < 2) 0(',&,1(6,1*$325(		
		%8516 75$80$		
		(8523($1 -2851$/ 2),17(51$/ 0(',&,1(		
		0(',&$/ &/,1,&62) 1257+ $0(5,&$		
		$0(5,&$1 -2851$/ 2) 35(9(17,9(0(',&,1(		
		%5,7,6+ -2851$/ 2)*(1(5$/ 35$&7,&(		
		$&$' (0,&(0(5*(1&< 0(',&,1(		
		-2851$/62)*(52172/2*<6(5,(6$ %2/2*,&$/ 6&,(1&(6$1' 0(',&$/ 6&,(1&(6		
		,1129$7,21 ,1 $*,1*		
		)5217,(56,1 $*,1* 1(8526&,(1&(		
		-2851$/ 2)*(1(5$/ ,17(51$/ 0(',&,1(		
		$0(5,&$1 -2851$/ 2) &+,1(6(0(',&,1(	;	
		$0(5,&$1 -2851$/ 2) 0(',&,1(		
		$*,1* 86		
		&/(9(/$1' &/,1,&-2851$/ 2) 0(',&,1(		
		-2851$/ 2)(9,'(1&(%6(' 0(',&,1(		
		11/62))$0,/<0(',&,1(		
		%5,7,6+ 0(',&$/ %8//(7,1		
		(8523($1 -2851$/ 2) &/,1,&$/ ,19(67,*$7,21		
		-2851$/ 2) 1(85275$80$		
		0(&+$1,60 62) $*(,1* $1' '(9(/230(17		
		-2851$/ 2) 1875,7,21 +($/7+ $*,1*		
		1(852%2/2*<2) $*,1*		

4Ýa	Å -	U @C0&	, 661	&1
		-2851$/62) *(52172/2*<6(5,(6 %36<&+2/2*,&$/ 6&,(1&(6$1' 62&,$/ 6&,(1&(6		
		%0-(9,'(1&(%$6(' 0(',&,1(	;	
		35(9(17,9(0(',&,1(		
		3267*5$' 8$7(0(',&$/ -2851$/		
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		/ ³ ¤ ³ Ö0 0 q		5
		¤ 0 0 € V		5
		¤ 0 ˜ í		5
		f ¤ 0		5
		h º ¤ 0		5
		/ ³ æ³ ¤ 0		5
		, • „ ð v		5
		° ” È v		5
		½– Ö0 0 q ¤ 0 Q		5
		º ‹ ‹ ¤ Ö0 0 q		5
		/ ’ ¤ 0 ³ 0 v		5
		/ ³ , • ¤ “ v		5
		/ 7 ¤ 0 (• v		5
		Ä ‹ ‹ ¤ Ö0 0 q		5
		V J Ö0 0 q ¤ 0 Q		5
		/ V Ö0 0 q ¤ 0 ³ 0 Q		5
		‹ Ö0 0 q ¤ 0 Q	;	5
		¬ ¤ 0 v		5
		h º ì ¹ Ö0 0 q ¤ 0 Q		5
		7 É ¤ 0		5
		/ ³ £ Ý ¤ 0 v		5
		¤ 0 0 Ý 0		5
		Ÿ # ¤ •		5
		/ ³ ¤ •		5
		/ ³ , • ¤ 0		5
		/ ³ • Ö0 0 q ¤ 0 Q		5
		/ ³ Ž Å ¤ 0 v		5
		/ ³ ¤ œ		5
		/ ³ / f ¤ æ„ Wv		5
		, • b ð b -		5
		/ ³ ¤ • v		5
		S Ñ Ö0 0 q ¤ 0 Q		5
		’ 8 ¤ ³ Ö0 0 q ‘ ö ³ 0 Q		5
		/ ³ ¤ • ý q		5
		J ’ Ö0 0 q ¤ 0 Q		5
		z 8 ¤ 0		5
		n „ ¤ 0 0 , •		5
		, • ä ¬ r ¤ 0 v		5
		/ ’ Ö0 0 q ¤ 0 Q		5
		Â ‹ ¤ 0] 0 q		5
		/ ³ • ³ Ö0 0 q		5
		J ¤ •		5

E2ô/" +û œ0 ¶ U @<4Ý-$ ‹ F

4Ýa	Å -	U @C0&	, 661	&1
		: 25/' 36<&+,$75<		
		/$1&(7 36<&+,$75<		
		-0 36<&+,$75<	;	
		36<&+27+(5$3< $1' 36<&+2620$7,&6		
		36<&+2/2*,&$/ %8//(7,1		
		75(1'6,1&2*1,7,9(6&,(1&(6		
		118/5(9,(: 2)&/,1,&$/ 36<&+2/2*<		
		$0(5,&$1-2851$/2)36<&+,$75<	;	
		%5$,1%(+$9,25$1',0081,7<		
		&/,1,&$/36<&+2/2*<5(9,(:		
		-2851$/2)1(852/2*< 1(852685*(5<$1'36<&+,$75<		
		02/(&8/$536<&+,$75<		
		%2/2*,&$/36<&+,$75<		
7		%5,7,6+-2851$/2)36<&+,$75<		
		1(8526&,(1&($1'%2%(+$9,25$/ 5(9,(:6		
		-2851$/2)%(+$9,25$/ $'',&7,216		
		-2851$/2)&+,/'36<&+2/2*< $1'36<&+,$75<		
		1(85236<&+23+50&2/2*<	;	
		36<&+2/2*,&$/0(',&,1(		
		75$16/$7,21$/36<&+,$75<		
		$&7$36<&+,$75,&$6&$1',1$9,&$	;	
		6&+,=23+5(1,$%8//(7,1		
		$'',&7,21		
		36<&+2/2*,&$/5(9,(:	;	
		$'9$1&(6,10(7+2'6$1' 35$&7,&(6,136<&+2/2*,&$/ 6&,(1&(		
		36<&+,$75<$1'&/,1,&$/ 1(8526&,(1&(6		
		36<&+,$75<5(6($5&+		
		-2851$/2)$1;,(7<',625'(56		
		(8523($136<&+,$75<		
		-2851$/2)$))(&7,9('',625'(56		
		-2851$/2)&/,1,&$/36<&+,$75<		
7		%32/$5',625'(56		
		&16'58*6		
		'(35(66,21$1'$1;,(7<		
		+($/7+36<&+2/2*<5(9,(:		
		$6,$1-2851$/2)36<&+,$75<		
		,17(51$7,21$/-2851$/2) &/,1,&$/$1'+($/7+36<&+2/2*<		
		(3,'(0,2/2*<$1'36<&+,$75,& 6&,(1&(6		

4Ýa	Å -	U @C0&	, 661	&1
		%5,7,6+ -2851$/ 2) +($/7+ 36<&+2/2*<	;	
		$0(5,&$1 -2851$/ 2) *(5,$75,& 36<&+,$75<		
		,17(51$7,21$/ 36<&+2*(5,$75,&6		
		*(1(5$/ +263,7$/ 36<&+,$75<		
		&/,1,&$/ &+,/' $1')$0,/< 36<&+2/2*<5(9,(:		
		&855(17 23,1,21 ,1 36<&+,$75<		
		&855(17 36<&+,$75<5(32576		
		36<&+2/2*,&$/ 75$80$ 7+(25< 5(6($5&+ 35$&7,&($1' 32/,&<		
		-2851$/62)*(52172/2*<6(5,(6 %36<&+2/2*,&$/ 6&,(1&(6$1' 62&,$/ 6&,(1&(6		
		352*5(66,1 1(852 36<&+23+50&2/2*< %2/2*,&$/ 36<&+,$75<		
		,17(51$7,21$/ -2851$/ 2) 0(17$/ +($/7+ 1856,1*		
		&+,/' $1' $' 2/(6&(17 36<&+,$75< $1' 0(17$/ +($/7+		
		(8523($1 1(85236<&+23+$50$&2/2*<	;	
		-0,50(17$/ +($/7+		
		(8523($1 -2851$/ 2) 36<&+275$80$72/2*<		
		,17(51$7,21$/ -2851$/ 2) 1(85236<&+23+$50$&2/2*<		
		-2851$/ 2) 36<&+,$75,&5(6($5&+		
		(8523($1 $5&+,9(62) 36<&+,$75< $1' &/,1,&$/ 1(8526&,(1&(		
		-2851$/ 2) $%1250$/ 36<&+2/2*<	;	
		8675/,$1 $1' 1(: =($/$1' -2851$/ 2) 36<&+,$75<		
		6&+,=23+5(1,$ 5(6($5&+		
		&20 35(+(16,9(36<&+,$75<	;	
		*(1(5$/ 36<&+,$75<		5
		/ ³ ï 8 / “ v		5
		/ : Š³ v		5
7		36<&+21(852(1' 2&5,12/2*<		
		,17(51$7,21$/ -2851$/ 2) 0(17$/ +($/7+ $1' $' ',&7,21		
		,17(51$7,21$/ -2851$/ 2) 62&,$/ 36<&+,$75<		
		0(17$/ ,//1(66		
		&+,/' $1' $' 2/(6&(17 0(17$/ +($/7+	;	
		-2851$/ 2) &2168/7,1* $1' &/,1,&$/ 36<&+2/2*<	;	
		&/,1,&$/ 36<&+2/2*<6&,(1&($1' 35$&7,&(		
		1(85236<&+2/2*<5(9,(:		
		,17(51$7,21$/ -2851$/ 2) ($7,1* ',625' (56		

4Ýa	Å -	U @C0&	, 661	&1
		%5$=,/ ,$1 -2851$/ 2) 36<&+,$75<		
		13- 6&+,=23+5(1,$	;	
		%36<&+ 23(1		
		$33(7,7(		
		(8523($1 ($7,1* ' ,625' (56 5(9,(:		
		%2' < ,0$*(		
		(9,' (1&(%6(' 0(17$/ +($/7+		
		,5,6+ -2851$/ 2) 36<&+2/2*,&$/ 0(' ,&,1(		
		%(+$9,25$/ $1' %5$,1)81&7,216		
		-2851$/ 2) &217(;78$/ %(+$9,25$/ 6&,(1&(		
		&855(17 23,1,21 ,1 %(+$9,25$/ 6&,(1&(6		
		&/ ,1,&$/ 36<&+2/2*,&$/ 6&,(1&(		
		&2*1,7,9(%(+$9,285 7+(5$3<		
		-2851$/ 2) 36<&+2620$7,& 5(6($5&+		
		0(17$/ +($/7+ $1' 3+<6,&$/ $&7,9,7<		
		,17(51$7,21$/ -2851$/ 2) 75$16*(1' (5 +($/7+		
		$5&+,9(62): 20(160(17$/ +($/7+		
		$' ',&7,9(%(+$9,256		
		%0 & 36<&+,$75<	;	
		62&,$/ 36<&+,$75< $1' 36<&+,$75,&(3,' (0,2/2*<		
		-2851$/ 2) 0(025< $1' /$1*8$*(	;	
		36<&+2/2*<5(6($5&+ $1' %(+$9,250$1$*(0(17		
		,17(51(7,17(59(17,2167+($33/,&$7,21 2) ,1)250$7,21 7(&+12/2*<,10(17$/ $1' %(+$9,285$/ +($/7+		
		-2851$/ 2) 36<&+,$75< 1(8526&,(1&(		
		3+$50 $&236<&+,$75<		
		+($/7+ 36<&+2/2*<		
		62&,$/ &2*1,7,9($1' $))(&7,9(1(8526&,(1&(		
		-2851$/ 2) &/,1,&$/ &+,/' $1' $' 2/(6&(17 36<&+2/2*<		
		' 58* $1' $/&2+2/ ' (3(1' (1&(		
		7+(5$3(87,&$' 9$1&(6,1 36<&+23+$50 $&2/2*<		
		675(66$1' +($/7+		
		%(+$9,285 5(6($5&+ $1' 7+(5$3<		
		-2851$/ 2) ($7,1* ' ,625' (56		
		-2851$/ 2) 36<&+23+$50 $&2/2*<		
		%25' (5/,1(3(5621$/,7<' ,625' (5 $1' (027,21' <65(*8/$7,21		

4Ýa	Å -	U @C0&	, 661	&1
		&1' ,$1 -2851$/ 2) 36<&+,$75< 5(98(&$1$' ,(11(' (36<&+,$75,(		
		,17(51$7,21$/ -2851$/ 2) *(5,$75,& 36<&+,$75<		
		,17(51$7,21$/ -2851$/ 2) %32/$5 ',625' (56		
		&/,1,&$/ 1(85236<&+2/2*,67		
		)$0,/< 352&(66		
		-2851$/ 2) 68%67$1&($%86(75($70(17		
		36<&+27+(5$3< 5(6($5&+		
		(8523($1 $' ',&7,21 5(6($5&+		
		*/2%$/ 0(17$/ +($/7+		
		36<&+,$75,& 6(59,&(6		
		$&7$ 1(85236<&+,$75,&$		
		+$59$5' 5(9,(: 2) 36<&+,$75<		
		36<&+23+<6,2/2*<		
		%(+$9,25 7+(5$3<		
		&257(;		
		36<&+2620$7,&6		
		36<&+23+$50 $&2/2*<		
		36<&+27+(5$3<		
		-2851$/ 2)(&7		
		/ û ¤ 0 0 —³ 0 v		5
		/ ³ , • ï 8 0 v		5

E U]+ô+ûDV +ûœ0 ¶ U @<4Ý-$ ‹ F

4Ýa	Å -	U @C0&	, 661	&1
7		/$1&(7,1)(&7,286',6($6(6		
		-2851$/ 2),1)(&7,21		
		(0(5*,1*,1)(&7,286',6($6(6		
		/$1&(7+,9		
		,17(51$7,21$/ -2851$/ 2) ,1)(&7,286',6($6(6		
		-2851$/ 2) 75$9(/0(',&,1(		
		,1)(&7,21		
		75$9(/0(',&,1($1' ,1)(&7,286 ',6($6(		
		-2851$/ 2) +263,7$/ ,1)(&7,21		
		(8526859(,//$1&(	;	
		,1)(&7,286',6($6(6		
		-2851$/ 2),1)(&7,21 $1' 38%/,& +($/7+		
		&/,1,&$/ ,1)(&7,286',6($6(6		
		,1)(&7,286',6($6(6$1' 7+(5$3<		
		$,' 6		
		/ Ž ù È v		5
		/ , • + ù È v		5

4Ýa	Å -	U @C0&	, 661	&1
		/$1&(70,&52%(		
		1$785(0,&52%2/2*<		
		&/,1,&$/0,&52%2/2*<5(9,(:6		
		(0(5*,1*0,&52%(6 ,1)(&7,216		
		1$785(5(9,(:60,&52%2/2*<		
		(8523($1-2851$/2)&/,1,&$/ 0,&52%2/2*< ,1)(&7,286 ',6($6(6		
		-2851$/2)&/,1,&$/9,52/2*<		
		&/,1,&$/0,&52%2/2*<$1' ,1)(&7,21	;	
		-2851$/2)&/,1,&$/0,&52%2/2*<		
		-2851$/2)7+(,17(51$7,21$/$,'6 62&,(7<		
		&(//+267 0,&52%(		
		,1)(&7,21&21752/$1'+263,7$/ (3,'(0,2/2*<	;	
7		-2851$/2)0(',&$/9,52/2*<		
		-2851$/2)9,52/2*<	;	
		,17(51$7,21$/-2851$/2) $17,0,&52%$/$*(176		
		-2851$/2)0,&52%2/2*< ,0081 2/2*<$1' ,1)(&7,21		
		75(1'6,10,&52%2/2*<	;	
		,1)(&7,286',6($6(&/,1,&62)1257+ $0(5,&$		
		0,&52%20(		
		$,'63$7,(17&$5($1'67'6		
		118/5(9,(:2)0,&52%2/2*<		
		$17,9,5$/5(6($5&+		
		(;3(575(9,(:2)$17,,1)(&7,9(7+(5$3<		
		/³+ù0$ov		5
		,1)(&7,286',6($6(62)329(57<		5
		/³+ùÅ%v		5
		,17(51$7,21$/-2851$/2)+<*,(1($1'(19,5210(17$/+($/7+		
		-2851$/2)7+(3(',$75,& ,1)(&7,286',6($6(662&,(7<		
		21(+($/7+		
		118/5(9,(:2)9,52/2*<	;	
		-2851$/2),1)(&7,286',6($6(6		
7		&855(1723,1,21,1,1)(&7,286 ',6($6(6		
		$17,%27,&6%$6(/		
		&855(17+,9$,'65(32576		
		0,&52%2/2*<$1'02/(&8/$5 %2/2*<5(9,(:6		
		(3,'(0,&6		
		0,&52%(6$1',1)(&7,21		
		$&6,1)(&7,286',6($6(6		

4Ýa	Å -	U @C0&	, 661	&1
		0(' (&,1((70$/$',(6,1)(&7,(86(6	;	
		$17,0,&52%$/ $*(176$1' &+(027+(5$3<		
		5(9,(: 6,10(',&$/ 9,52/2*<		
		(3,'(0,2/2*<$1' ,1)(&7,21		
		,1)(&7,21$1' '58* 5(6,67$1&(		
		&855(17 23,1,21 ,19,52/2*<		
		)(060,&52%2/2*<5(9,(: 6		
		-2851$/2)*/2%$/ $17,0,&52%$/ 5(6,67$1&(		
		%0&,1)(&7,286',6($6(6		
		,1)(&7,21$1' ,00 81,7<		
		$0(5,&$1 -2851$/2),1)(&7,21 &21752/		
		*8705,&52%(6		
		,1)(&7,21*(1(7,&6$1' (92/87,21		
		3/263$7+2*(16		
		9,5865(6($5&+		
		+,90(',&,1(		
		,60(-2851$/		
		-2851$/2)9,5$/ +(3$7,7,6		
		&855(17 23,1,21 ,10,&52%2/2*<		
		)81*$/',9(56,7<		
		678',(6,10<&2/2*<		
		0,&52%2/2*<63(&7580		
		6(;8$//<75$160,77(',)(&7,216		
		75$16%2281'$5<$1' (0(5*,1* ',6($6(6		
		75(1'6,13$5$6,72/2*<		
		-$,'6-2851$/2)$&48,5(',00 81(' (),&,(1&<6<1'520(6		
		Ž ù È ð o		5
		/ ¤] + ù 0 v		5
		/ “ ^ 0 ä G Æ0 v		5
		/ ³ È] È v		5

E,ä6Ú+ûD] +ûœ0 ¶ U @<4Ý-$ ‹ F

4Ýa	Å -	U @C0&	, 661	&1
7		-2851$/2)7+($0(5,&$1 $&$'(0<2)'(50$72/2*<		
		-0'(50$72/2*<		
		-2851$/2),19(67,*$7,9('(50$72/2*<	;	
		/ # ñ ³ v		5
7		%5,7,6+ -2851$/2)'(50$72/2*<		
		-2851$/2)7+((8523($1 $&$'(0<2)'(50$72/2*<$1' 9(1(5(2/2*<		
		-2851$/2)'(50$72/2*,&$/ 6&,(1&(		

		(; 3(5,0(17$/ '(50$72/2*<		
		,17(51$7,21$/ -2851$/ 2) '(50$72/2*<		
		$&7$ '(50$72 9(1(5(2/2*,&$		
		&/,1,&$/ $1' (; 3(5,0(17$/ '(50$72/2*<		
		-2851$/ 2) '(50$72/2*<		
		(8523($1 -2851$/ 2) '(50$72/2*<		
7		&217$&7 '(50$7,7,6		
		$0(5,&$1 -2851$/ 2) &/,1,&$/ '(50$72/2*<		
		'(50$72/2*<		
		'(50$7,7,6		
		0<&26(6		
		3,*0(17&(// 0(/$120$5(6($5&+		
		'(50$72/2*,&7+(5$3<		
		, • # ñ ³ v		5
		/ ³ # ñ ÿ È 0 v		5
		¬ # ñ È 0 v		5

E>v#è+ûœ0 ¶ U @<4Ý-$ ‹ F

4Ýa	Å -	U @C0&	, 661	&1
7		%/22'		
		/$1&(7+$(0$72/2*<		
		/(8.(0,$		
		$0(5,&$1 -2851$/ 2) +(0$72/2*<		
7		%5,7,6+ -2851$/ 2) +$(0$72/2*<		
		+$(0$72/2*,&$		
		-2851$/ 2) +(0$72/2*< 21&2/2*<		
		%/22' $' 9$1&(6		
		%/22' &$1&(5 -2851$/		
		-2851$/ 2) 7+520%26,6$1' +$(0267$6,6		
		/ 3¡ 0 v		5
7		%21(0$552: 75$163/$17$7,21		
		7+520%26,6$1' +$(0267$6,6		
		75$163/$17$7,21$1' &(//8/$5 7+(5$3< %2/2*<2) %/22' $1' 0$552: 75$163/$17$7,21		
		(; 3(5,0(17$/ +(0$72/2*< 21&2/2*<		
		7+520%26,65(6($5&+		
		11/62) +(0$72/2*<		
		/(8.(0,$ /<03+20$		
		/(8.(0,$5(6($5&+		
		(8523($1 -2851$/ 2) +$(0$72/2*<		
		/ ³ ¬ r 3¡ 0 v		5
		, • 3¡ 0 v		5

		³ • Û 3 ƒ 3 ¡ 0 v	;	5

E6ô7E+û œ0 ¶ U @< 4Ý-$ ‹ F

4Ýa	Å -	U @C0&	, 661	&1
7		1$785(5(9,(: 61(3+52/2*<		
		. ,' 1(<,17(51$7,21$/		
7		-2851$/ 2) 7+($0(5,&$1 62&,(7< 2) 1(53+52/2*<		
		$0(5,&$1 -2851$/ 2) . ,' 1(< ' ,6($6(		
		&/,1,&$/ -2851$/ 2) 7+($0(5,&$1 62&,(7< 2) 1(3+52/2*<		
		1(3+52/2*< ' ,$/<6,6 75$163/$17$7,21		
		. ,' 1(<,17(51$7,211$/ 5(32576		
7		. ,' 1(<,17(51$7,21$/ 6833/(0(176		
		&/,1,&$/ . ,' 1(< -2851$/		
		$0(5,&$1 -2851$/ 2) 3+<6,2/2*< 5(1$/ 3+<6,2/2*<	;	
		/ • ƒ È v		5
		/ • È Y N(• v		5
		• ƒ È 0 É e • - v	;	5
		/ ³ 3 ¡ J $		5

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4Ýa	Å -	U @C0&	, 661	&1
7		/$1&(75+(80$72/2*<		
		1$785(5(9,(: 65+(80$72/2*<		
7		11/62) 7+(5+(80$7,&' ,6($6(6		
		$57+5,7,6 5+(80$72/2*<		
		5+(80$72/2*<		
7		$57+5,7,65(6($5&+ 7+(5$3<		
		6(0,1$56,1 $57+5,7,6$1' 5+(80$7,60		
		-2851$/ 2) 5+(80$72/2*<	;	
		/ ä ¡ È 0 v		5
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7		$0(5,&$1 -2851$/ 2) 685*,&$/ 3$7+2/2*<		
		0 2' (51 3$7+2/2*<		
		/ È 8 0 v		5
		-2851$/ 2) 3$7+2/2*<		
7		$0(5,&$1 -2851$/ 2) 3$7+2/2*<		
		+,6723$7+2/2*<		

		3$7+2/2*<		
		$&7$ 1(8523$7+2/2*,&$		
		&$1&(5 &<723$7+2/2*<	;	
		$5&+,9(62) 3$7+2/2*< /$%25$725<0(',&,1(		
		,•0¬rÈ80v		5
		ðnÈ80v		5
7		+80$1 3$7+2/2*<		
		$0(5,&$1 -2851$/2) &/,1,&$/ 3$7+2/2*<		
		9,5&+2: 6$5&+,9		
		3$7+2/2*<5(6($5&+ $1' 35$&7,&(		
		%5$,1 3$7+2/2*<		
		-2851$/2) 02/(&8/$5',$*1267,&6		
		',$*1267,& 3$7+2/2*<		
		+,672/2*< $1' +,6723$7+2/2*<		
		',$*1267,& &<723$7+2/2*<		
		(1'2&5,1(3$7+2/2*<		
		,17(51$7,21$/ -2851$/2) *<1(&2/2*,&$/ 3$7+2/2*<		
		,•0È8v		5

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7		&/,1,&$/ &+(0,675<		
		&/,1,&$/ &+(0,675< $1' /$%25$725< 0(',&,1(		
		/ ¿r¤0v		5
7		&/,1,&$/ 0,&52%2/2*< $1' ,1)(&7,21	;	
		&/,1,&$/ ,1)(&7,286',6($6(		
		$'9$1&(6,1 &/,1,&$/ &+(0,675<		
		&/,1,&$ &+,0,&$ $&7$		
		,•¿rv	;	5
		¿r¤0		5
7		-2851$/2) &/,1,&$/ 0,&52%2/2*<		
		11/62) /$%25$725<0(',&,1(		
		-2851$/2) &+520$72*5$3+<$		
		,17(51$7,21$/ -2851$/2) /$%25$725< +(0$72/2*<		
		&/,1,&$/ %2&+(0,675<		
		$5&+,9(62) 3$7+2/2*< /$%25$725<0(',&,1(		
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		£Ý¿r¤0v		5

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	,(((&$$ -RXUQDORI $XWRP DWHD6LQLFD			Å %8 â 0 Å %] Q
	,(((7UDQVDFWLRQVRQ $XWRP DWF &RQWURO			Å %8 â 0 Å %] Q
	$XWRP DWHD			Å %8 â 0 Å %] Q
	,(((7UDQVDFWLRQVRQ $XWRP DWRQ6FLHQFH DQG(QJLQHHULQJ			Å %8 â 0 Å %] Q
	6FLHQFH&KLQD ,QIRUP DWLRQ6FLHQFHV	;		Å %8 â 0 Å %] Q
	,(((7UDQVDFWLRQVRQ (YROXWLRQDU\ &RP SXWDWLRQ	;		f ´ - ¹ 0 & Ÿ , Ä
	,(((7UDQVDFWLRQVRQ 3DWWHUQ$ QDO\VLV DQG 0 DFKLQH,QWHOOLJHQFH			f ´ - ¹ 0 & Ÿ , Ä
	,QIRUP DWLRQ) XUR			f ´ - ¹ 0 & Ÿ , Ä
	%LRVHQVRUV %LRHOHFWURQLFV			¿ • ì 0 ‘ N $ m"
	5HP RWH6HQVLQJ RI (QYLURQP HQW			¿ • ì 0 ‘ N $ m"
	3URJUHVVLQ$ HURVSDFH 6FLHQFHV			ý Ô c %ý 0 Å %
	$ SSOLHG(QHUJ\			, Ä] Q
	(QHUJ\ &RQYHUVLRQ DQG 0 DQDJHP HQW			, Ä] Q
	,(((7UDQVDFWLRQVRQ 6P DUW UG			, Ä] Q
	* HQRP H%LRORJ\	;		“ ^ ð o 0
	1 XFOHLF $ FLGV5 HVHDUFK			“ ^ ð o 0
	&HP HQWDQG&RQFUHWH 5HVHDUFK			r œð o $
	&KHP LFDO(QJLQHHULQJ -RXUQDO			r œð o $
	,(((7UDQVDFWLRQVRQ ,QGXVWULDO,QIRUP DWLFV			r œð o $
	2 SWLFD			& Ÿ + 0 ‘ V Å %
	5 RERWLFVDQG &RP SXWDWLU,QWHJUDWHG 0 DQXI DFWXULQJ			o v 0 M , Ä
	$ SSOLHG0 DWHP DWLFDO	;		¿ ç ³ 0 0] Q

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	0 RGHOOQJ			
	$ GYDQFHVLQ2 SWFVDQG 3KRWRQLFV			~ æì
	,(((6LJQDO3URFHVVLQJ 0 DJD]LQH			~ æì
	,(((7UDQVDFWLRQV RQ $ IIHFWLYH&RP SXWLQJ			~ æì
	,(((9HKLFXODU 7HFKQRORJ\ 0 DJD]LQH			~ æì
	/ LJKW6FLHQFH $ SSOLFDWLRQV			~ æì
	3URFHHGLQJV R\ \WH ,(((			~ æì
	6P DOO			~ æì

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	&RQWURO(QJLQHHULQJ 3UDFWLFH			Å %8 â 0 Å %] Q
	,(((7UDQVDFWLRQV RQ &RQWURO6\ VWHP V 7HFKQRORJ\			Å %8 â 0 Å %] Q
	,(((7UDQVDFWLRQV RQ &\ EHUQHWLFV			Å %8 â 0 Å %] Q
	,QWHUQDWLRQDO-RXUQDO R 5REXVWDQG1 RQOLQHDU &RQWURO			Å %8 â 0 Å %] Q
	-RXUQDO R 2 SWLP L]DWLRQ 7KHRU\ DQG$ SSOLFDWLRQV			Å %8 â 0 Å %] Q
	-RXUQDO R 3URFHVV&RQWURO			Å %8 â 0 Å %] Q
	-RXUQDO R 7KH) UDQNOLQ ,QVWLWXWH			Å %8 â 0 Å %] Q
	1 RQOLQHDU $ QDO\VLV + \ EULG6\ VWHP V	;		Å %8 â 0 Å %] Q
	1 RQOLQHDU $ QDO\VLV 0 RGHOOQJ DQG &RQWURO			Å %8 â 0 Å %] Q
	1 RQOLQHDU \ QDP LFV	; ;		Å %8 â 0 Å %] Q
	6,$ 0 -RXUQDO R&RQWURO DQG2 SWLP L]DWLRQ			Å %8 â 0 Å %] Q
	7KH,QWHUQDWLRQDO-RXUQDO R ,QWHOOLJHQW&RQWURO DQG 6\ VWHP V			Å %8 â 0 Å %] Q
	/ ³ ³ 0 ! ð o ³ 0		73	Å %8 â 0 Å %] Q
	‘ N $ 0 q		73	Å %8 â 0 Å %] Q
	$ &0 7UDQVDFWLRQV RQ * UDSKLFV			f ´ - ¹ 0 & Ÿ , Ä
	$ &0 7UDQVDFWLRQV RQ ,QWHOOLJHQW6\ VWHP V DQG 7HFKQRORJ\			f ´ - ¹ 0 & Ÿ , Ä
	$ UWLFLDO,QWHOOLJHQFH			f ´ - ¹ 0 & Ÿ , Ä
	(QJLQHHULQJ $ SSOLFDWLRQV R\ $ UWLFLDO,QWHOOLJHQFH			f ´ - ¹ 0 & Ÿ , Ä
	+ XP DQ &RP SXWHU ,QWHUDFWLRQ			f ´ - ¹ 0 & Ÿ , Ä
	,(((7UDQVDFWLRQV RQ $ XGLR 6SHHFK DQG / DQJXDJH 3URFHVVLQJ			f ´ - ¹ 0 & Ÿ , Ä

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	,(((7UDQVDFWRQVRQ ,P DJH3URFHWLQJ			f ´ - ¹ 0 & Ÿ , Ä
	,(((7UDQVDFWRQVRQ . QRZ OHGJH DQG' DWD (QJLQHHULQJ			f ´ - ¹ 0 & Ÿ , Ä
	,(((7UDQVDFWRQVRQ 1 HXUDO1 HWZ RUNV DQG / HDUQLQJ 6\ VWP V	;		f ´ - ¹ 0 & Ÿ , Ä
	,QWUQDWRQDO-RXUQDORI &RP SXWU9 LVLRQ			f ´ - ¹ 0 & Ÿ , Ä
	,QWUQDWRQDO-RXUQDORI ,QWOOJHQW6\ VWP V	;		f ´ - ¹ 0 & Ÿ , Ä
	. QRZ OHGJH %DVHG 6\ VWP V			f ´ - ¹ 0 & Ÿ , Ä
	1 HXUDO1 HWZ RUNV			f ´ - ¹ 0 & Ÿ , Ä
	1 HXURFRP SXWQJ			f ´ - ¹ 0 & Ÿ , Ä
	3DWWUQ5 HFRJQLWRQ			f ´ - ¹ 0 & Ÿ , Ä
	6,$0 -RXUQDORQ,P DJLQJ 6FLHQFHV			f ´ - ¹ 0 & Ÿ , Ä
	& Ÿ ³ 0 0 • ì		73	f ´ - ¹ 0 & Ÿ , Ä
	$&6 $SSOHG0 DWUDOV ,QWUDFHV			¿ • ì 0 ‘ N $ m"
	,((((OHFWRQ' HYLFH / HWWLV			¿ • ì 0 ‘ N $ m"
	,(((7UDQVDFWRQVRQ 5HODELOW			¿ • ì 0 ‘ N $ m"
	,(((7UDQVDFWRQVRQ 6LJQDO3URFHWLQJ	;		¿ • ì 0 ‘ N $ m"
	,(((7UDQVDFWRQVRQ : LUHOHVV&RP P XQLFDWRQV			¿ • ì 0 ‘ N $ m"
	,((($60 (7UDQVDFWRQV RQ 0 HFKDW RQLFV	;		¿ • ì 0 ‘ N $ m"
	,635 6 -RXUQDORI 3KRWRJUDP P HWW DQG 5HP RWH6HQVLQJ			¿ • ì 0 ‘ N $ m"
	/ DE RQ D&KLS			¿ • ì 0 ‘ N $ m"
	5HODELOW (QJLQHHULQJ DQG6\ VWP 6DI HW			¿ • ì 0 ‘ N $ m"
	5HP RWH6HQVLQJ			¿ • ì 0 ‘ N $ m"
	6HQVRUV DQG$ FWXDWRUV %&KHP LFDO			¿ • ì 0 ‘ N $ m"
	6P DUW0 DWUDOV DQG 6WKFWXUHV	;		¿ • ì 0 ‘ N $ m"
	$ HURVSDFH6FLHQFH DQG 7HFKQRORJ\			ý Ô c %ý 0 Å %
	* 36 6ROXWRQV			ý Ô c %ý 0 Å %
	* XLGDQFH 1 DYLJDWRQ DQG &RQWRO			ý Ô c %ý 0 Å %
	,(((* HRVFLHQFH DQG 5HP RWH6HQVLQJ / HWWLV	;		ý Ô c %ý 0 Å %
	,(((7UDQVDFWRQVRQ $ HURVSDFH DQG(OHFWRQLF 6\ VWP V			ý Ô c %ý 0 Å %
	,(((7UDQVDFWRQVRQ * HRVFLHQFH DQG5HP RWH			ý Ô c %ý 0 Å %

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	6HQVLQJ			
	,((($60 (7UDQVDFWLRQV RQ0 HFKDWRQLFV			ý Ô c %ý 0 Å %
	-RXUQDORI * XLGDQFH &RQWRO DQG' \QDPLFV			ý Ô c %ý 0 Å %
	$ SSOLHG0 DWHP DWFVDQG &RP SXWDWLRQ			, Ä] Q
	&KDRV			, Ä] Q
	&RP SXWHUV ,QGXVWULDO (QJLQHHULQJ			, Ä] Q
	' HFLVLRQ6XSSRUW6\ VWHP V			, Ä] Q
	(XURSHDQ-RXUQDORI 2 SHUDWLRQDO5HVHDUFK			, Ä] Q
	,(((,QWHOOLJHQW 7UDQVSRUWDWLRQ6\ VWHP V 0 DJD] LQH			, Ä] Q
	,(((6\ VWHP V-RXUQDO			, Ä] Q
	,(((7UDQVDFWLRQV RQ %LRP HGLFDO&LUFXLWV DQG 6\ VWHP V			, Ä] Q
	,(((7UDQVDFWLRQV RQ &LUFXLWV DQG6\ VWHP V,			, Ä] Q
	,(((7UDQVDFWLRQV RQ ,QWHOOLJHQW7UDQVSRUWDWLRQ 6\ VWHP V			, Ä] Q
	,(((7UDQVDFWLRQV RQ 60 & 6\ VWHP V			, Ä] Q
	,QWHUQDWLRQDO-RXUQDORI %LX UFDWLRQ DQG&KDRV			, Ä] Q
	,QWHUQDWLRQDO-RXUQDORI 3URGXFWLRQ5HVHDUFK	;		, Ä] Q
	0 DQDJHP HQW6FLHQFH			, Ä] Q
	2 SHUDWLRQV5HVHDUFK	;		, Ä] Q
	7UDQVSRUWDWLRQ5HVHDUFK 3DUW$			, Ä] Q
	7UDQVSRUWDWLRQ5HVHDUFK 3DUW%			, Ä] Q
	7UDQVSRUWDWLRQ5HVHDUFK 3DUW&	;		, Ä] Q
	$ &6 6\ QWHWLF %LRORJ\			“ ^ ð o 0
	$ P HULFDQ-RXUQDORI + XP DQ* HQHWLFV			“ ^ ð o 0
	%LRLQ RUP DWFV			“ ^ ð o 0
	%P F* HQRP LFV			“ ^ ð o 0
	%UHLQJVLQ %LRLQ RUP DWFV			“ ^ ð o 0
	* HQRP H5HVHDUFK			“ ^ ð o 0
	* HQRP LFV			“ ^ ð o 0
	* HQRP LFV3URWHRP LFV %LRLQ RUP DWFV			“ ^ ð o 0
	-RXUQDORI %LRP HGLFDO ,QIRUP DWFV			“ ^ ð o 0
	-RXUQDORI VWH$ P HULFDQ			“ ^ ð o 0

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	0 HGLFDO,QIRUP DWLFV $ VVRFLDWLRQ	;		
	3/ R6 FRP SXWDWLRQDO ELRORJ\	;		“ ^ ð o 0
	3/ R6 JHQHWLFV			“ ^ ð o 0
	$ LFKH-RXUQDO			r œð o $
	&HP HQW &RQFUHWH &RP SRVLWHV			r œð o $
	&KHP LFDO(QJLQHHULQJ 6FLHQFH			r œð o $
	&RP SXWDWLV &KHP LFDO (QJLQHHULQJ			r œð o $
	(QHUJ\			r œð o $
	) URQWLHUVI &KHP LFDO&FLHQFHDQG (QJLQHHULQJ			r œð o $
	) XHO			r œð o $
	) XHO3URFHVVLQJ 7HFKQRORJ\			r œð o $
	+ \ GURP HDOOXJ\	;		r œð o $
	,(((7UDQVDFWLRQV 3RZ HU6\ VWHP V			r œð o $
	,(((7UDQVDFWLRQV RQ QGXVWU $ SSOLFDWLRQV			r œð o $
	,QWHUQDWLRQDO-RXUQDORI * UHQKRXVH* DV&RQWRO			r œð o $
	,QWHUQDWLRQDO-RXUQDORI 3URGXFWLRQ(FRQRP LFV			r œð o $
	0 LQHUDOV(QJLQHHULQJ			r œð o $
	3DWWHUQRORJ\			r œð o $
	3RZ GHU7HFKQRORJ\	;		r œð o $
	5HYLHZ VLQ&KHP LFDO (QJLQHHULQJ			r œð o $
	$ SSOLHG3K\ VLFV/ HWWHUV			& Ÿ + 0 ‘ V Å %
	,(((7UDQVDFWLRQV RQ &RQWURO 1 HWZRUN 6\ VWHP V			& Ÿ + 0 ‘ V Å %
	,(((7UDQVDFWLRQV RQ 9 LVXDOL]DWLRQ DQG &RP SXWHU* UDSKLFV			& Ÿ + 0 ‘ V Å %
	2 SWLFV([SUHVV			& Ÿ + 0 ‘ V Å %
	2 SWLFV/ HWWHUV			& Ÿ + 0 ‘ V Å %
	,(((5RERWLFV DQG $ XWRP DWLRQ0 DJD] LQH			o v 0 M , Ä
	,(((7UDQVDFWLRQV RQ 5RERWLFV			o v 0 M , Ä
	,QWHUQDWLRQDO-RXUQDORI 5RERWLFV5HVHDUFK			o v 0 M , Ä
	-RXUQDORI) LHOG5 RERWLFV			o v 0 M , Ä
	%XLOGLQJ 6LP XODWLRQ			¿ ç ³ 0 0] Q

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	&RP P XQLFDWRQVLQ 1 RQOLQH6FLHQFHDQG 1 XP HULFDO6LP XODWRQ			¿ ç ³ 0 0] Q
	&RP SOH[6\VWHP 0 RGHOLQJ DQG6LP XODWRQ			¿ ç ³ 0 0] Q
	-RXUQDORI &RP SXWDWRQDO DQG$ SSOLHG0 DWKHP DWLFV			¿ ç ³ 0 0] Q
	-RXUQDORI &RP SXWDWRQDO 3K\VLFV			¿ ç ³ 0 0] Q
	0 DWKHP DWLFDO0 RGHOLQJ RI 1 DWXUDO3KHQRP HQD			¿ ç ³ 0 0] Q
	0 DWKHP DWLFDO0 RGHOVDQG 0 HWKRGV1LQ$ SSOLHG 6FLHQFHV			¿ ç ³ 0 0] Q
	0 DWKHP DWLFVDQG &RP SXWDWLV1LQ6LP XODWRQ			¿ ç ³ 0 0] Q
	0 XOWLVFDOH0 RGHOLQJ 6LP XODWRQ			¿ ç ³ 0 0] Q
	6,$0 -RXUQDORQ 6FLHQWLF&RP SXWLQJ			¿ ç ³ 0 0] Q
	6LP XODWRQ0 RGHOLQJ 3UDFWLFHDQG7KHRU\	;		¿ ç ³ 0 0] Q
	7KH-RXUQDORI ' HHQVH 0 RGHOLQJ DQG6LP XODWRQ			¿ ç ³ 0 0] Q
	™8 o 0 q		73	¿ ç ³ 0 0] Q
	, Ä ¿ ç 0 q	;	&1 9	¿ ç ³ 0 0] Q
	$&6 3KRWRQLFV			˜ æì
	$XWRP DWRQLQ &RQWUKFWRQ			˜ æì
	&HUHEUDO&RUWH[			˜ æì
	&KLQHVH6FLHQFH%XOOHWLQ	;		˜ æì
	(QJLQHHULQJ			˜ æì
	([SHUW6\VWHP VZLWK $ SSOLFDWLRQV			˜ æì
	) X]]\ 6HVVDQG6\VWHP V			˜ æì
	+ XP DQ%UDLQ0 DSSLQJ			˜ æì
	,(((&RP SXWDWRQDO ,QWHOOLJHQFH0 DJD]LQH	;		˜ æì
	,(((-RXUQDORI 6HOHFWHG $UHDLQ&RP P XQLFDWRQV			˜ æì
	,(((-RXUQDORI 6HOHFWHG 7RSLFVLQ6LJQDO 3URFHVVLQJ			˜ æì
	,(((7UDQVRQ(QHUJ\ &RQYHUVLRQ			˜ æì
	,(((7UDQVDFWLRQVRQ %LRP HGLFDO(QJLQHHULQJ			˜ æì
	,(((7UDQVDFWLRQVRQ &LUFXLWVDQG6\VWHPV IRU 9 LGHR7HFKQRORJ\			˜ æì
	,(((7UDQVDFWLRQVRQ &RJQLWLYHDQG ' HYHORSP HQWDO6\VWHP V			˜ æì
	,(((7UDQVDFWLRQVRQ &RP SXWDWLRQDO6RFLDO 6\VWHP V	;		˜ æì

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	,(((7UDQVDFWRQV/RQ) X]]\ 6\VWHPV			~ æì
	,(((7UDQVDFWRQV/RQ ,QGXVWULDO(OHFWURQLFV			~ æì
	,(((7UDQVDFWRQV/RQ ,QIRUP DWRQ) RUHQVLFVDQG 6HFXULWV			~ æì
	,(((7UDQVDFWRQV/RQ ,QIRUP DWRQ7KHRU			~ æì
	,(((7UDQVDFWRQV/RQ 0 HGLFDO,P DJLQJ			~ æì
	,(((7UDQVDFWRQV/RQ 0 XOWLP HGLD			~ æì
	,(((7UDQVDFWRQV/RQ 1 HXUDO6\VWHPV DQG 5HKDELOLWDWLRQ (QJLQHHULQJ			~ æì
	,(((7UDQVDFWRQV/RQ 3DUDOOHODQG' LVWULEXWHG 6\VWHPV			~ æì
	,(((7UDQVDFWRQV/RQ 3RZHU' HOLYHU			~ æì
	,(((7UDQVDFWRQV/RQ 3RZHU(OHFWURQLFV			~ æì
	,(((7UDQVDFWRQV/RQ 9HKLFXODU7HFKQRORJ\			~ æì
	,QIRUP DWRQ6FLHQFHV			~ æì
	,QWHUQDWLRQDO-RXUQDORI %LR LQVSLUHG&RP SXWDWLRQ			~ æì
	-RXUQDORI 0 DQXI DFWXULQJ 6\VWHPV			~ æì
	-RXUQDORI 1 HWZRUN DQG &RP SXWHU$ SSOLFDWLRQV			~ æì
	-RXUQDORI 1 HXUDO (QJLQHHULQJ			~ æì
	-RXUQDORI 1 HXURVFLHQFH			~ æì
	0 HFKDQLFDO6\VWHPV DQG 6LJQDO3URFHVVLQJ			~ æì
	1 HXURLP DJH			~ æì
	6FLHQWLF5HSRUWV			~ æì

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	$ VLDQ-RXUQDORI &RQWRO			Å %8 â 0 Å %] Q
	&RQWRO7KHRU DQG 7HFKQRORJ\			Å %8 â 0 Å %] Q
	(XURSHDQ-RXUQDORI &RQWRO			Å %8 â 0 Å %] Q
	,(7 &RQWRO7KHRU DQG $ SSOLFDWRQ			Å %8 â 0 Å %] Q
	,QWHUQDWRQDO-RXUQDORI &RQWRO			Å %8 â 0 Å %] Q
	2 SWP DO&RQWRO $ SSOLFDWRQV DQG 0 HWKRGV			Å %8 â 0 Å %] Q
	6\VWHPV &RQWRO / HWWHUV			Å %8 â 0 Å %] Q

Å -	U @C0&	, 661 (, 661	&1	œ0 N¼
	Å %8 â 0 ë			Å %8 â 0 Å %] Q
	%LRORJLFDO&\ EHLQHWFV			f ´ - ¹ 0 & Ÿ , Ä
	&RP SXWHU9 LVLRQ DQG ,P DJH8 QGHUDVDQGLQJ	;		f ´ - ¹ 0 & Ÿ , Ä
	' DVD0 LQLQJ DQG . QRZ OHGJH' LVFRYHLV	;		f ´ - ¹ 0 & Ÿ , Ä
	(YROXWRQDU\ &RP SXWDWRQ			f ´ - ¹ 0 & Ÿ , Ä
	,(((,QWHOOJHQW 6\ VWHP V			f ´ - ¹ 0 & Ÿ , Ä
	,(((7UDQVDFWRQVRQ $ XWRQRP RXV0 HQWDO ' HYHORSP HQW			f ´ - ¹ 0 & Ÿ , Ä
	,(((7UDQVDFWRQVRQ &RP SXWDWRQDO ,QWHOOJHQFH DQG$, LQ * DP HV	;		f ´ - ¹ 0 & Ÿ , Ä
	,(((7UDQVDFWRQVRQ + DSWFV			f ´ - ¹ 0 & Ÿ , Ä
	,(((7UDQVDFWRQVRQ + XP DQ0 DFKLQH 6\ VWHP V			f ´ - ¹ 0 & Ÿ , Ä
	,QWHUQDWRQDO-RXUQDORI $ SSUR[LP DWH5 HDVRQLQJ	;		f ´ - ¹ 0 & Ÿ , Ä
	,QWHUQDWRQDO-RXUQDORQ ' RFXP HQW$ QDO\VLV DQG 5 HFRJQLWRQ			f ´ - ¹ 0 & Ÿ , Ä
	-RXUQDORI $ UWLFLDO ,QWHOOJHQFH5 HVHDUFK			f ´ - ¹ 0 & Ÿ , Ä
	-RXUQDORI 0 DFKLQH / HDUQLQJ 5 HVHDUFK			f ´ - ¹ 0 & Ÿ , Ä
	. QRZ OHGJH DQG ,QIRUP DWRQ6\ VWHP V			f ´ - ¹ 0 & Ÿ , Ä
	0 DFKLQH/ HDUQLQJ			f ´ - ¹ 0 & Ÿ , Ä
	3DWWHUQ5 HFRJQLWRQ / HWWHUV			f ´ - ¹ 0 & Ÿ , Ä
	f ´ - ¹ 0] & Ÿ		73	f ´ - ¹ 0 & Ÿ , Ä
	$ &0 7UDQVDFWRQVRQ 6HQVRU1 HWZ7RUNV			¿ • ì 0 ‘ N $ m"
	,(((-RXUQDORI 6HOHFWHG7 RSLFVLQ $ SSOLHG(DUWK 2 EVHUYDWRQVDQG 5 HP RWH6HQVLQJ			¿ • ì 0 ‘ N $ m"
	,(((6HQVRUV-RXUQDO	;		¿ • ì 0 ‘ N $ m"
	,(((6LJQDO3URFHVVLQJ / HWWHUV			¿ • ì 0 ‘ N $ m"
	,(((7UDQVDFWRQVRQ ,QWWXP HQWDWRQ DQG 0 HDVXUHP HQW			¿ • ì 0 ‘ N $ m"
	,(((7UDQVDFWRQVRQ 1 DQRWHFKQRORJ\	;		¿ • ì 0 ‘ N $ m"
	,QWHUQDWRQDO-RXUQDORI $ GYDQFHG 0 DQXI DFWXULQJ 7HFKQRORJ\			¿ • ì 0 ‘ N $ m"
	-RXUQDORI ,QWWXP HQWDWRQ			¿ • ì 0 ‘ N $ m"
	-RXUQDORI			¿ • ì 0 ‘ N $ m"

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	0 LFURHOHFWURP HFKDQLFDO 6\ VWHP V			
	0 HDVXUHP HQW			¿ • ì 0 ‘ N $ m"
	0 LFURI OXLGLFV DQG 1 DQRI OXLGLFV			¿ • ì 0 ‘ N $ m"
	1 DQRWHFKQRORJ\			¿ • ì 0 ‘ N $ m"
	6HQVRUV DQG $ FWXDWRU $ 3K\ VLFDO			¿ • ì 0 ‘ N $ m"
	® v ® ¶ 0 q		7+	¿ • ì 0 ‘ N $ m"
	$ FWD$ VWRQDXWFD			ý Ô c %ý 0 Å %
	,((($ HURVSDFH DQG (OHFWURQLF 6\ VWHP V 0 DJD] LQH			ý Ô c %ý 0 Å %
	,(7 5 DGDU6RQDU 1 DYLJDWRQ			ý Ô c %ý 0 Å %
	-RXUQDORI $ HURVSDFH &RP SXWQJ ,QI RUP DWRQ DQG&RP P XQLFDWRQ			ý Ô c %ý 0 Å %
	-RXUQDORI $ HURVSDFH (QJLQHHULQJ			ý Ô c %ý 0 Å %
	-RXUQDORI 1 DYLJDWRQ			ý Ô c %ý 0 Å %
	-RXUQDORI 3URSXOVLRQ DQG3RZ HU			ý Ô c %ý 0 Å %
	0 LFURJUDYLW 6FLHQFH DQG7HFKQRORJ\			ý Ô c %ý 0 Å %
	3URFHHGLQJVRI VKH ,QWWXWRQRI 0 HFKDQLFDO(QJLQHHUV 3DUW -RXUQDORI $ HURVSDFH(QJLQHHULQJ			ý Ô c %ý 0 Å %
	Ô Â 0 q		9	ý Ô c %ý 0 Å %
	3 Ô 0 q		9	ý Ô c %ý 0 Å %
	&RP SXWHUV 2 SHUDWRQV5 HVHDUFK	;		, Ä] Q
	,(((7UDQVDFWRQVRQ (QJLQHHULQJ 0 DQDJHP HQW			, Ä] Q
	,,(7UDQVDFWRQV	;		, Ä] Q
	-RXUQDORI 6\ VWHP V 6FLHQFH DQG&RP SOH[LW			, Ä] Q
	3K\ VLFDO5 HYLHZ (			, Ä] Q
	3K\ VLFV/ HWHUV$			, Ä] Q
	7UDQVDFWRQVRQ&LUFXLW DQG6\ VWHP V3DUW,			, Ä] Q
	Å %0 …		73	, Ä] Q
	, Ä] Q 8 â 0 ¬ Ì		1	, Ä] Q
	%LRV\ VWHP V			“ ^ ð o 0
	%P F %LRLQI RUP DWFV			“ ^ ð o 0
	' DWDEDVH 7KH-RXUQDORI %LRORJLFDO DWDEDVHV DQG&XUDWRQ			“ ^ ð o 0
	* HQH			“ ^ ð o 0
	,(((7UDQVDFWRQVRQ ,QI RUP DWRQ7HFKQRORJ\ LQ%LRP HGLFLQH			“ ^ ð o 0
	,(((7UDQVDFWRQVRQ 1 DQR%LRVFLHQFH			“ ^ ð o 0

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	,((($&0 7UDQVDFWLRQVRQ &RP SXWDWLRQDO%LRORJ\ DQG%LRLQIRUP DWLFV			“ ^ ð o 0
	,(7 6\ VWHP V%LRORJ\			“ ^ ð o 0
	-RXUQDORI &RP SXWDWLRQDO%LRORJ\			“ ^ ð o 0
	-RXUQDORI 7KHRUHWLFDO %LRORJ\			“ ^ ð o 0
	0 HWKRGV			“ ^ ð o 0
	0 RGHFXODU2 PLFV			“ ^ ð o 0
	4 XDQWXPDWLYH%LRORJ\			“ ^ ð o 0
	&KHP LFDO(QJLQHHULQJ 7HFKQRORJ\			r œð o $
	&KHP LFDO(QJLQHHULQJ DQG3URFHVVLQJ			r œð o $
	&KHP LFDO(QJLQHHULQJ 5HVHDUFK ' HVLJQ			r œð o $
	&KLQHVH-RXUQDORI &KHP LFDO(QJLQHHULQJ			r œð o $
	(QHUJ\ ) XHOV			r œð o $
	(QJLQHHULQJ 2 SWLPL] DWLRQ	;		r œð o $
	(QYLURQPH,QWHUQDWLRQDO 6\ VWHP V			r œð o $
	,QGXVWULDO (QJLQHHULQJ &KHP LVWU\ 5HVHDUFK			r œð o $
	,QGXVWULDO 0 DQDJHP HQW ' DWD 6\ VWHP V			r œð o $
	,QWHUQDWLRQDO-RXUQDORI 0 LQHUDO3URFHVVLQJ			r œð o $
	-RXUQDORI &KHP LFDOEQG (QJLQHHULQJ ' DWD			r œð o $
	6\VWHPV5HVHDUFK ,QWHUQDWLRQDO			r œð o $
	7(768 72 +$*$1(-2851$/ 2) 7+(,521 $1' 67((/ ,167,787(2) -$3$1			r œð o $
	$SSOLHG2 SWLFV	;		& Ÿ + 0 ‘ V Å %
	%LRP HGLFDO2 SWLFV ([SUHVV			& Ÿ + 0 ‘ V Å %
	,(((3KRWRQLFV 7HFKQRORJ\ / HWWHUV			& Ÿ + 0 ‘ V Å %
	-RXUQDORI 2 SWLFV			& Ÿ + 0 ‘ V Å %
	3K\ VLFV$ 6WDWLVWLFDO 0 HFKDQLFV DQG LWV $SSOLFDWLRQV			& Ÿ + 0 ‘ V Å %
	$GYDQFHG5 RERWLFV			o v 0 M , Ä
	$XWRQRP RXV5 RERWV			o v 0 M , Ä
	%LRLQVSLUDWLRQ %LRP LP HWLFV			o v 0 M , Ä
	,QGXVWULDO5 RERWV7 KH ,QWHUQDWLRQDO-RXUQDORI 5 RERWLFV5HVHDUFK DQG	;		o v 0 M , Ä

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	$ SSOFDWRQ			
	, QWUQDWRQDO-RXUQDORI $ GYDQFHG5 RERWF 6\ VWP V			o v 0 M , Ä
	, QWUQDWRQDO-RXUQDORI + XP DQRLG5 RERWFV			o v 0 M , Ä
	, QWUQDWRQDO-RXUQDORI 5 RERWFV DQG $ XWRP DWRQ			o v 0 M , Ä
	-RXUQDORI $ HURVSDFH , QI RUP DWRQ6\ VWP V			o v 0 M , Ä
	-RXUQDORI , QWHOOJHQW DQG5 RERWF6\ VWP V			o v 0 M , Ä
	0 HGLFDODQG%LRORJLFDO (QJLQHHULQJ DQG &RP SXWQJ			o v 0 M , Ä
	5 RERWFD			o v 0 M , Ä
	8 QP DQQHG6\ VWP			o v 0 M , Ä
	o v		73	o v 0 M , Ä
	$ &0 7 UDQVDFWRQVRQ 0 RGHOQJ DQG&RP SXWU 6LP XODWRQ			¿ ç ³ 0 0] Q
	&RP SXWDWRQDO6\VDWWWFV ' DWD$ QDOVLV			¿ ç ³ 0 0] Q
	, QWUQDWRQDO-RXUQDOI RU 0 XOWFDOH &RP SXWDWRQDO (QJLQHHULQJ			¿ ç ³ 0 0] Q
	, QWUQDWRQDO-RXUQDORI (QJLQHHULQJ 6\ VWP V 0 RGHOQJ DQG 6LP XODWRQ			¿ ç ³ 0 0] Q
	, QWUQDWRQDO-RXUQDORI 0 RGHOQJ 6LP XODWRQ DQG6FLHQWLF &RP SXWQJ			¿ ç ³ 0 0] Q
	, QWUQDWRQDO-RXUQDORI 0 RGHOQJ DQG 6LP XODWRQ			¿ ç ³ 0 0] Q
	, QWUQDWRQDO-RXUQDORI 1 RQOQHDU6FLHQFHVDQG 1 XP HULFDO6LP XODWRQ			¿ ç ³ 0 0] Q
	, QWUQDWRQDO-RXUQDORI 6LP XODWRQ DQG3URFHW 0 RGHOQJ			¿ ç ³ 0 0] Q
	,17(51$7,21$/ -2851$/ 2) 6<67(0 6 6&,(1&(			¿ ç ³ 0 0] Q
	-RXUQDORI 6LP XODWRQ			¿ ç ³ 0 0] Q
	-RXUQDORI 6\VDWWWFDO &RP SXWDWRQ DQG 6LP XODWRQ			¿ ç ³ 0 0] Q
	0 RGHOQJ DQG 6LP XODWRQ LQ0 DWULDO 6FLHQFH DQG (QJLQHHULQJ			¿ ç ³ 0 0] Q
	6LP XODWRQ 7 UDQVDFWRQV RI VKH6RFLHWI RU 0 RGHOQJ DQG 6LP XODWRQ, QWUQDWRQDO			¿ ç ³ 0 0] Q

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	6RWZDUHDQG6\VWHP V 0 RGHOQJ			¿ ç ³ 0 0] Q
	™8 o ¿ ç		73	¿ ç ³ 0 0] Q
	, Ä ¿ ç • ì		73	¿ ç ³ 0 0] Q
	¥ £ ¬ 0 & Ÿ ÷ Ñ ç 3 Q 9LUWXDO 5HDOLW ,QWHJUDWHG +DUGZDUH			¿ ç ³ 0 0] Q
	H Å %0 ¿ ç		7-	¿ ç ³ 0 0] Q
	$ XWRQRP RXV,QWHJUDWHG\ 6\VWHP V	;		~ æì
	) URQWHUVLQ &RP SXWDWLRQDO 1HXURVFLHQFH			~ æì
	,((7UDQVDFWLRQV RQ &LUFXLWVDQG6\VWHP V			~ æì
	-RXUQDORI &RP SXWDWLRQDO 1HXURVFLHQFH			~ æì
	0 HFKDQLVP DQG 0 DFKLQH7KHRU	;		~ æì
	0 HFKDWURQLFV			~ æì
	1HXUDO&RP SXWDWLRQ	;		~ æì
	3K\VLFD' 1RQOLQHDU 3KHQRP HQD			~ æì

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7		/ ³ (o] Q0 q		&1　70	Ÿ W0 (O˜ æ
7		352&((' ,1* 6 2) 7+(,(((			Ÿ W0 (O˜ æ
7		/ ³ (o] Q0 V (O0 Ÿ W, Ä 0 q　ç 3		&1　70	Ÿ W0 (O˜ æ
7		£ Ý (O, Ä 0 Â　Ÿ W0 q　ç 3		&1　7.	Ÿ W0 (O˜ æ
7		$33/ ,(' (1(5* <			Ÿ W0 (O˜ æ
7		,(((75$16$&7,216 21 ,1' 8675,$/ ,1)250 $7,&6			Ÿ W0 (O˜ æ
7		352* 5(66 ,1 (1(5* < $1' &20 %867,21 6&,(1&(			Ÿ W0 Ÿ (• ì
7		(1(5* <　(19,5210 (17$/ 6&,(1&(			Ÿ W0 Ÿ (• ì
7		,(((75$16$&7,216 21 6867$,1$%/ ((1(5* <			Ÿ W0 Ÿ (• ì
7		)8(/			Ÿ W0 Ÿ (• ì
7		NO] Q0 q		&1　7.	Ÿ W0 Ÿ (• ì
7		62/$5 (1(5* < 0 $7(5,$/ 6$1' 62/$5 &(// 6			Ÿ W0 Ÿ (• ì
7		,(((75$16$&7,216 21 (1(5* < &219(56,21			Ÿ W0 Ÿ (• ì
7		OŸ (		&1　70	Ÿ W0 Ÿ (• ì
7		,(((75$16$&7,216 21 60 $57 *5,'			(O, Äƒ c ‘ N$
7		(O, Ä ‘ N$		&1　73	(O, Äƒ c ‘ N$
7		(　• ì		&1　70	(O, Äƒ c ‘ N$
7		,(((75$16$&7,216 21 32: (5 6<67(0 6			(O, Äƒ c ‘ N$
7		,(((75$16$&7,216 21 32: (5 ' (/,9(5<			(O, Äƒ c ‘ N$
7		3527(&7,21 $1' &21752/ 2) 0 2' (51 32: (5 6<67(0 6			(O, Äƒ c ‘ N$
7		( ] • ì 0 q		&1　70	( ] 8 â 0 m•
7		+LJK9RQWH		&1　70	( ] 8 â 0 m•
7		,(((75$16$&7,216 21 32: (5 (/(&7521,&6			( ] 8 â 0 m•
7		,(((75$16$&7,216 21 ' ,(/(&75,&6$1' (/(&75,&$/ ,168/$7,21			( ] 8 â 0 m•
7		: (B • ì		&1　70	( ] 8 â 0 m•
7		$' 9$1&(' (1(5* < 0 $7(5,$/ 6			( ] 8 â 0 m•

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7		(1(5*< 675$7(*< 5(9,(: 6	;		Ÿ W0 (O˜ æ
7		(1(5*< (&2120,&6			Ÿ W0 (O˜ æ
7		(QHUJ\ &RQVHUYDWLRQDQG(FRQRPLFV			Ÿ W0 (O˜ æ
7		/ ³ (O		&1 70	Ÿ W0 (O˜ æ
7		,17(51$7,21$/ -2851$/ 2) (/(&75,&$/ 32: (5 (1(5*< 6<67(06			Ÿ W0 (O˜ æ
7		ÓDŸW0, B ç 3		&1 7.	Ÿ W0 (O˜ æ
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7		6867$,1$%/ ((1(5*<)8(/6			Ÿ W0 (O˜ æ
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7		,17(51$7,21$/ -2851$/ 2) +<' 52*(1(1(5*<			Ÿ W0 Ÿ (• ì
7		-2851$/ 2) (1(5*< 5(6285&(67(&+12/2*< 75$16$&7,2162) 7+($60(			Ÿ W0 Ÿ (• ì
7		-2851$/ 2) 32: (5 6285&(6			Ÿ W0 Ÿ (• ì
7		-2851$/ 2) 7+((1(5*< ,167,787(			Ÿ W0 Ÿ (• ì
7		ŸNO] Q		&1 7.	Ÿ W0 Ÿ (• ì
7		$33/,(' 7+(50$/ (1*,1((5,1*			Ÿ W0 Ÿ (• ì
7		,(((-2851$/ 2) 3+27292/7$,&6			Ÿ W0 Ÿ (• ì
7		,(((75$16$&7,21621 5(/,$%/,7<			(O, Äƒc ‘ N$
7		,(((75$16$&7,21621 .12: /(' *($1' ' 7 (1*,1((5,1*			(O, Äƒc ‘ N$
7		(O, Äl 0Å%		&1 70	(O, Äƒc ‘ N$
7		æÏ ŸW S ç 3		&1 7.	(O, Äƒc ‘ N$
7		(O‘ N$••		&1 70	(O, Äƒc ‘ N$
7		,(((75$16$&7,21621 75$163257$7,21 (/(&75,),&$7,21			(O, Äƒc ‘ N$
7		,(((75$16$&7,21621 ,1' 8675< $33/,&$7,216			(O, Äƒc ‘ N$
7		,(7(/(&75,&$/ 6<67(06,1 75$163257$7,21			(O, Äƒc ‘ N$

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7		,(7(/(&75,&32: (5 $33/,&$7,216			(O, Äƒc ‘ N$
7		,(((75$16$&7,21621 0$*1(7,&6			( ] 8 â 0 m•
7		,(((-2851$/2)(0(5*,1* $1' 6(/(&7(' 723,&6,132: (5 (/(&7521,&6			( ] 8 â 0 m•
7		,(((75$16$&7,21621 &,5&8,76 $1' 6<67(06,,(;35(66%5,()6			( ] 8 â 0 m•
7		,(((-2851$/2)7+((/(&7521 '(9,&(662&,(7<			( ] 8 â 0 m•
7		$'9$1&(' (/(&7521,& 0$7(5,$/6	;		( ] 8 â 0 m•
7		,(((75$16$&7,21621 &,5&8,76 $1' 6<67(06,5(*8/$53$3(56			( ] 8 â 0 m•
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7		&3667UDQVDFWLRQV RQ3RZHU(GHFWRQLFV DQG$SSOLFDWLRQV	;		( ] 8 â 0 m•
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7		-2851$/2)62/$5(1(5*< (1*,1((5,1* 75$16$&7,2162)			Ÿ W0 Ÿ (• ì

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7		-2851$/ 2) 5(1(: $%/ ($1' 6867$,1$%/ ((1(5* <			Ÿ W0 Ÿ (• ì
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7		,17(51$7,21$/ 75$16$&7,216 21 (/(&75,&$/ (1(5* < 6<67(0 6			Ÿ W0 Ÿ (• ì
7		&20 %867,21 7+(25< $1' 0 2' (//,1*			Ÿ W0 Ÿ (• ì
7		,QWHUQDWLRQDO-RXUQDORI 6XWDLQDEOH (QHUJ\ ' HYHORSP HQW			Ÿ W0 Ÿ (• ì
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7		(/(&75,& 32: (5 6<67(0 6 5(6($5&+			(O, Ä ƒ c ‘ N $
7		(O, Ä ƒ c ‘ N $ 0 q		&1 70	(O, Ä ƒ c ‘ N $
7		(O ð o 0 ¹ ð • ì	;	&1 7.	(O, Ä ƒ c ‘ N $
7		b (		&1 70	(O, Ä ƒ c ‘ N $
7		,(7 * (1(5$7,21 75$160 ,66,21 ' ,675,%87,21			(O, Ä ƒ c ‘ N $
7		(O Ù •		&1 70	(O, Ä ƒ c ‘ N $
7		,(7 6&,(1&(0($685(0(17 7(&+12/2* <			(O, Ä ƒ c ‘ N $
7		,(((,1' 8675< $33/,&$7,216 0 $* $=,1(			(O, Ä ƒ c ‘ N $
7		(O Ð • 8		&1 7.	(O, Ä ƒ c ‘ N $
7		(/(&75,& 32: (5 &20 321(176 $1' 6<67(0 6			(O, Ä ƒ c ‘ N $
7		(O] Q • ì		&1 70	(O, Ä ƒ c ‘ N $
7		(O³ 0 0] Q		&1 7.	(O, Ä ƒ c ‘ N $
7		(O³ 0 0 • ì 0 q		&1 70	(O, Ä ƒ c ‘ N $
7		( ] (Ÿ í • ì		&1 70	( ] 8 â 0 m •
7		$33/,(' &20 387$7,21$/ (/(&7520 $* 1(7,&6 62&,(7< -2851$/			( ] 8 â 0 m •
7		,(((0 $* 1(7,&6/(77(56	;		( ] 8 â 0 m •
7		3+<6,&$ & 683(5&21' 8&7,9,7< $1' ,76 $33/,&$7,216			( ] 8 â 0 m •
7		(v 0 Ÿ Ò • 8 • ì		&1 70	( ] 8 â 0 m •
7		Ö (o • ì		&1 70	( ] 8 â 0 m •
7		(/(. 7521,. $,5 (/(. 7527(&+1,. $			( ] 8 â 0 m •
7		: B (v		&1 70	( ] 8 â 0 m •
7		- B v		&1 70	( ] 8 â 0 m •
7		‡ X ë x		&1 70	( ] 8 â 0 m •
7		(W • ì	;	&1 70	( ] 8 â 0 m •

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7		(O(v 0 M_ à *		&1 70	( ] 8 â 0 m•
7		(¬ ¥ " v		&1 70	( ] 8 â 0 m•
7		(0 ® ¶		&1 7+	( ] 8 â 0 m•

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Ÿ ã ¨ · !　　-

c q9¥N¼ QC´H 0 ¶ U @<4Ý-$ ‹ 74Ý´　0 µ

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T1	/ ³ ¬ r º ” 0 v	1005-9903	11-3495/R	/ ¤ •
T1	/　/ ¤ • v	1673-1727	11-5334/R	/ ¤ •
T1	/　/ ¤ • 0 œ	1673-7717	21-1546/R	/ ¤ •
T1	/ ³ / ¤ n „ ¤ 0 v	1006-3250	11-3554/R	/ ¤ •
T1	z 8 / ¤ • Ö 0 0 q	1006-2157	11-3574/R	/ ¤ •
T1	/ ¤ v	1001-1668	11-2166/R	/ ¤ •
T1	/ ³ / • v	1001-5302	11-2272/R	/ ¤ •
T1	/　•	0253-2670	12-1108/R	/ ¤ •
T1	/ ³ / f ¤　æv	1003-5370	11-2787/R	/ ¤ •
T1	ì ¯ Y N	1000-0607	11-2274/R	/ ¤ •
T1	/ ³ ì S	0255-2930	11-2024/R	/ ¤ •
T1	/ ³　æ¤ 0 v	1672-0415	11-4928/R	/ ¤ •
T1	/ ¤ v　(ç 3 Q)	0255-2922	11-2167/R	/ ¤ •
T1	æ¤ 0 0 q (ç 3)	2095-4964	31-2083/R	/ ¤ •

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7	/ ³ / ¤ • ð o v		5	/ ¤ •
7	r Á / ¤ • Ö 0 0 q	;	5	/ ¤ •
7	’ 8 / ¤ • Ö 0 0 q		5	/ ¤ •
7	h º / ¤ • v		5	/ ¤ •
7	/ ³ / ¤ „	;	5	/ ¤ •
7	/ ¤ 0 q		5	/ ¤ •
7	/ ³ € d		5	/ ¤ •
7	œ< / ¤ • Ö 0 0 q		5	/ ¤ •
7	’ / ¤ • Ö 0 0 q	;	5	/ ¤ •
7	¢　0 q		5	/ ¤ •
7	h º / ¤ • Ö 0 0 q	;	5	/ ¤ •
7	ä Þ / ¤ • Ö 0 0 q		5	/ ¤ •
7	J / ¤ • Ö 0 0 q		5	/ ¤ •
7	·　/ ¤ •		5	/ ¤ •
7	V J / ¤ • Ö 0 0 q	;	5	/ ¤ •
7	z 8 / ¤ •		5	/ ¤ •
7	/ ¤ þ €		5	/ ¤ •
7	/ ¤ • 0 q		5	/ ¤ •
7	} • / ¤ •		5	/ ¤ •

7	Ÿ # / ¤ • Ö 0 0 q		5	/ ¤ •
7	, Ï / ¤ •		5	/ ¤ •
7	r Á / ¤ v		5	/ ¤ •
7	) • / ¤ • Ö 0 0 q		5	/ ¤ •
7	/ ³ / ¤ € d ³ v		5	/ ¤ •
7	/ ¤ • ý q	;	5	/ ¤ •
7	f æ/ ¤ •		5	/ ¤ •
7	V J / ¤ v	;	5	/ ¤ •
7	Þ * / ¤ •	;	5	/ ¤ •
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7	/ ³ £ Ý / •		5	/ ¤ •
7	/ • í • 0 , • • 8		5	/ ¤ •
7	¨ å ³ ¤ ³ •		5	/ ¤ •
7	/ N •		5	/ ¤ •
7	· ³ 0 • ì k k / ¤ • £ Ý $		5	/ ¤ •
7	/ • • 8 0 , •	;	5	/ ¤ •
7	/ ³ / f ¤ æ„ Wv		5	/ ¤ •
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7	· / f ¤ æv		5	/ ¤ •
7	/ ³ / f ¤ æ• È v	;	5	/ ¤ •
7	/ f ¤ æï —3 • È v		5	/ ¤ •
7	ì S , • v		5	/ ¤ •
7	h º ì S v		5	/ ¤ •
7	/ ¤ • 3 $		5	/ ¤ •
7	/ ¤ ® v		5	/ ¤ •
7	· / ¤ • v ç 3		5	/ ¤ •
7	/ • ç 3 Q		5	/ ¤ •
7	· ì S v		5	/ ¤ •
7	/ ¤ ³ 0 v ç 3		5	/ ¤ •
7	ô “ / ¤ • ç 3	;	5	/ ¤ •
7	ì S × † ¤ 0 ç 3 Q		5	/ ¤ •

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7	$ FWD* HRORJLFD6LQLFD (QJOLVK ( ) 0 q ç 3 Q		3	) 0
7	$ FWD2 FHDQRORJLFD6LQLFD º | 0 q ç 3 Q	;	3	º | ³ 0 c 3 0
7	$ GYDQFHVLQ$ VRV RVSKHULF 6FLHQFHVÖ w ³ 0) º ç 3 Q		2	Ö w ³ 0
7	$ GYDQFHVLQ&OP DWH&KDQJH 5HVHDUFK w - $ Y N) º ç 3 Q		3	Ö w ³ 0
7	&KLQD2 FHDQ(QJLQHHULQJ / ³ º |] Q ç 3 Q		3	º | ³ 0 c 3 0
7	(DUWKTXDNH(QJLQHHULQJ DQG (QJLQHHULQJ 9 LEUDWRQ ñ] Q 0] Q ò N ç 3 œ		3	ñ 0 c Ï ^ 8 0
7	) URQWLHUVRI (DUWK6FLHQFH Ï ³ 0 • a ç 3 Q		3	) 0
7	* HRVFLHQFH) URQWLHUV 0 • X ç 3 Q		3	) 0
7	,QWHUQDWRQDO-RXUQDORI &RDO 6FLHQFH 7HFKQRORJ\ ³ • r ³ 0 • ì 0 q ç 3		7'	à V] Q • ì
7	,QWHUQDWRQDO-RXUQDORI 0 LQLQJ 6FLHQFH DQG7HFKQRORJ\ à œ³ 0 • ì 0 q ç 3		7'	à V] Q • ì
7	-RXQDORI 2 FHDQ8 QLYHUVLWV RI &KLQD/ ³ º | Ö 0 0 q ç 3 Q		3	º | ³ 0 c 3 0
7	-RXUQDORI (DUWK6FLHQFH Ï ³ 0 0 œ ç 3 Q	;	3	) 0
7	-RXUQDORI 0 HWHRURORJLFDO 5HVHDUFK w À 0 q ç 3 Q		3	Ö w ³ 0
7	-RXUQDORI 2 FHDQRORJ\ DQG / LP QRORJ\ º | Ô 0 q ç 3		3	º | ³ 0 c 3 0
7	-RXUQDORI 3DODHRJHRJUDSK\ ~		3	) 0 c à ^ c [

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	8 0 q ç 3 Q			¦ c à • 0 c Ï ^ 8 0
7	3HWURO\P 6FLHQFH¦ ³ 0 ç 3 Q		7(	¦ Ÿ ö w] œ
7	5HVHDUFKLQ$VWURQRP\ DQG $VWURSK\VLFVŸ 3 ä Ÿ ˜ ^ 8 0 Y N		3	Ÿ 3 0
7	6&,(1&(&+,1$ (DUWK 6FLHQFHV// ³ ³ 0 Ï ³ 0 ç 3 Q		3	) 0
7	ð à 0 æ] Q0 q		7'	à V] Q • ì
7	F r 0 q		3	) 0 c à ^ c [¦ c à • 0
7	N [8] Ö0 0 q ‘ ö ³ 0 Q		1	) 0 c ¦
7	Ö r • 0 N à 0		3	) 0
7	Ö w ³ 0		2	Ö w ³ 0
7	0 v		3	) 0 c ~ “ ^ 0
7	Ï $ 0		3	à ^ c [¦ c à • 0
7	Ï ³ 0		3	) 0
7	Ï ³ 0) º		3	) 0 c Ï ^ 8 0
7	Ï ^ 8 0 q		3	Ï ^ 8 0
7	Ï 0 q		3	) 0
7	0 • X		3	) 0
7	ñ)		3	ñ 0 c Ï ^ 8 0
7	ñ 0 q		3	ñ 0 c Ï ^ 8 0
7	) â ?		3	) 0
7	) 0 q		3	) 0
7	Y N		3	) 0
7	$ Ì Õ Y N		;	Ö w ³ 0
7	: P w À		3	Ö w ³ 0
7	~ 8 0 q		3	) 0 c à ^ c [¦ c à • 0
7	~ Œr N ^ 0 q / ç 3		4	~ “ ^ 0
7	~ “ ^ 0 q		4	~ “ ^ 0
7	º	0 q		3	º	³ 0 c 3 0
7	º	0 Ô	;	3	º	³ 0 c 3 0
7	à •)		3	à ^ c [¦ c à • 0
7	à ^ [¦ Ï $ 0 ¹ q			à ^ c [¦ c à • 0
7	à œ³ 0 0 q		7'	à V] Q • ì
7	r ³ 0 • ì		7'	à V] Q • ì

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7	r 0 q		7'	à V] Q • ì
7	¢) 0 ž p		3	à V] Q • ì
7	w À 0 q		3	Ö w ³ 0
7	¦ Ï ^ 8 ž p		7(	¦ Ÿ ö w] œc Ï ^ 8 0
7	¦ ž p 0 —Ÿ / c ç 3	/ 3 ! ç 3 !	/ 3 ! 7(ç 3 ! 7(	¦ Ÿ ö w] œ
7	¦ 0 q		7(	¦ Ÿ ö w] œ
7	¦ 0 Ÿ ö w)		7(	¦ Ÿ ö w] œ
7	Ÿ ö w] œ		7(	¦ Ÿ ö w] œ
7	[¦ à ^ 0 v		3	à ^ c [¦ c à • 0
7	[¦ 0 q		3	à ^ c [¦ c à • 0
7	/ ³)		3	) 0
7	/ ³ ³ 0 ! Ï ³ 0		3	) 0
7	/ ³ à œÖ 0 0 q		7'	à V] Q • ì
7	/ ³ ¦ Ö 0 0 q ‘ ö ³ 0 Q		7(	¦ Ÿ ö w] œ
7	$ FLD* HRFKLP LFD Ï $ 0 ç 3 Q		3	à ^ c [¦ c à • 0
7	$ GYDQFHVLQ* HR (QHJU\ 5 HVHDUFK		M	¦ Ÿ ö w] œ
7	$ GYDQFHVLQ3RDU6FLHQFH~ ³ 0) º ç 3		3	º | ³ 0 c 3 0 c à ^ c [¦ c à • 0
7	$ 33/ ,(' * (2 3+ < 6,&6 ë Ï ^ 8 ç 3 Q		2	Ï ^ 8 0 c ¦ Ÿ ö w] œ
7	$ VWURVSKHULF DQG2 FHDQF 6FLHQFH / HWWHUV Ö w ä º | ³ 0 Ù q ç 3 Q		3	Ö w ³ 0
7	&KLQD* HRGRJ\ / ³) ç 3		3	) 0
7	&7 8 â 0 ë Y N		3	ñ 0 c Ï ^ 8 0
7	(DUWK DQG3ODQHWDU 3K\VLFV Ï 0 û ò ^ 8 ç 3		3	Ï ^ 8 0
7	(DUWKTXDNH5 HVHDUFK $ GYDQFHV ñ Y N) º ç 3		3	ñ 0 c Ï ^ 8 0
7	(DUWKTXDNH6FLHQFH ñ 0 q ç 3 Q		3	ñ 0 c Ï ^ 8 0
7	* HRGHV DQG* HRG\QDPLFVÖ h 0 Ï N O 0 ç 3 Q		3	ñ 0 c Ï ^ 8 0
7	-RXUQDORI * URXQGZ DWU6FLHQFH DQG(QJLQHHULQJ • ³ 0 0] Q		M	) 0
7	-RXUQDO0 DULQH6FLHQFHDQG $ SSOLFDWLRQ· š ¾] Q Ö 0 0		7	º | ³ 0 c 3 0

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	q ç 3 Q			
7	-RXQDORI 7URSLFDO HWURORJ\ Ûw À 0 q ç 3 Q		3	Öw³ 0
7	3DDHRZ RUGY ~ ·	;	M	~ “ ^ 0
7	6FLHQFHVLQ&RGDQG$UG 5HJLRQVÅÌ Õ³ 0 ç 3 Q		3	) 0
7	J 8] Ö0 0 q ‘ ö³ 0 Q		1	à V] Q• ì
7	r / y ½		3	Öw³ 0
7	Â‹ RÒ		3	Ï ^ 8 0
7	ð à 0 [Å%] Q0 q		7'	à V] Q• ì
7	= • ì		7(	Ï ^ 8 0
7	F r 0 ‹ ”)		3	) 0
7	Ö h0 Ï NO0		3	Ï ^ 8 0
7	Öw³ 0 0 q		3	Öw³ 0
7	Öw0 , B› 0 0 q		2	Öw³ 0
7	Ï , B 0 q		;	Ï ^ 8 0 c [¦ à ^
7	Ï ³ 0 0 , B 0 q		3	à ^ c [¦ c à • 0 c Ï ^ 8 0
7	Ï ^ 8 0) º		3	Ï ^ 8 0
7	Ï ðo³ 0 0 q		3	Ï ^ 8 0
7	Ï 0 , B		3	) 0 c à ^ c [¦ c à • 0
7	ñ		3	ñ 0 c Ï ^ 8 0
7	ñ] Q0 q		3	ñ c Ï ^ 8 0
7	ñ] Q0] Qò N		3	ñ c Ï ^ 8 0
7	ñ Y N		3	ñ c Ï ^ 8 0
7	) ³ • ¹ q		3	) 0
7	) ³ 0		3	) 0
7	) O0 0 q		3	) 0
7	) ¹ q		3	) 0
7	) 0 œ		3	) 0
7	) 0 ž p		3	) 0
7	) 0 ‡ W		3	) 0
7	) Óà â ·		3	) 0
7	J z ¦ Ö0 0 q		7(	¦ Ÿ ö w] œ
7	½y È y] Q0 q		3	ñ 0 c Ï ^ 8 0
7	Ä ! ë à		7'	à V] Q• ì
7	$ Ì w À		3	Öw³ 0
7	: Î) 0 q		3	) 0
7	: P V wÀ Y N		3	Öw³ 0
7	] Q) 0 q		3	) 0
7	] à ‘ N $	;	73	à V] Q• ì
7	¬ <)		3	) 0

<4Ý	U @C0&	, 661 (, 661	&1	œ0 N¼
7	© • 8] Ö 0 0 q		1	à ^ c [¦ c à • 0
7	³ Ò ‡ W³ • • 8		1	) 0
7	º - w)		3	¦ Ÿ ö w] œ
7	º |) • a		3	º | ³ 0 c 3 0
7	º |) 0)		3	º | ³ 0 c 3 0
7	º |] Q		3	º | ³ 0 c 3 0
7	º | , B ³ 0		;	º | ³ 0 c 3 0
7	º | ³ 0		3	º | ³ 0 c 3 0
7	º | ³ 0) º		3	º | ³ 0 c 3 0
7	º | ¹ q		3	º | ³ 0 c 3 0
7	º | 0 Y N	;	3	º | ³ 0 c 3 0
7	º | G q		3	º | ³ 0 c 3 0
7	ê z] Q Ö 0 0 q ‘ ö ³ 0 Q		1	à V] Q • ì
7	ê º Ö 0 0 q ‘ ö ³ 0 Q		79	à ^ c [¦ c à • 0
7	ê ’ 8] Ö 0 0 q ‘ ö ³ 0 Q		1	à V] Q • ì
7	ñ £ Þ ³ • Ö 0 0 q		7'	à V] Q • ì
7	’ ³ • Ö 0 0 q ‘ ö ³ 0 Q		1	à V] Q • ì
7	Û ³ 0		3	º | ³ 0 c 3 0
7	z ñ ³ 0		3	ñ 0 c Ï ^ 8 0
7	’ ñ		3	ñ 0 c Ï ^ 8 0
7	, B $ 0		;	à ^ c [¦ c à • 0
7	} • Ö 0 0 q Ï ³ 0 Q		3	) 0 c Ï ^ 8 0
7	~ Y N		3	º | ³ 0 c 3 0
7	J • ì		7'	à V] Q • ì
7	! ë à V	7'		à V] Q • ì
7	ž ³ 0 • ì		7)	) 0
7	Â · ³ 0 0 q		9	Ï ^ 8 0
7	à ! l 0 F		7'	à V] Q • ì c à ^ c [¦ c à • 0
7	à ! ž		7'	) 0 c à V] Q • ì c Ï ^ 8 0
7	à ! 0)		7'	à V] Q • ì c [¦ à ^
7	à ! ˜ æF		7'	) 0 c r c à ^ c [¦ c à • 0
7	à ^ 0 q		3	à ^ c [¦ c à • 0
7	à ^ [¦		7'	à ^ c [¦ c à •

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				0
7	à œ æ0 , l		7'	à V] Q • ì
7	à œY N 0 —Ÿ		7'	à V] Q • ì
7	ð \ 8] Ö 0 0 q ‘ ö ³ 0 Q	;	1	à ^ c [¦ c à • 0
7	r Á] Q • ì Ö 0 0 q ‘ ö ³ 0 Q		1	à V] Q • ì
7	à æ	;	7'	à V] Q • ì
7	à o à		7'	à V] Q • ì
7	r : ý B		*	à V] Q • ì
7	r] Q		7'	à V] Q • ì
7	r • ì		7'	à V] Q • ì
7	r < – Y N		)	à V] Q • ì
7	r g $		74	à V] Q • ì
7	Ÿ W, B l		;	à V] Q • ì
7	Ÿ W0 , l		7.	à V] Q • ì
7	w - $ Y N) º		3	Öw ³ 0
7	w 0 , B Y N		3	Öw ³ 0
7	w À		3	Öw ³ 0
7	w À ³ •		3	Öw ³ 0
7	w À ³ 0		3	Öw ³ 0
7	w À 0 , B ³ 0		3	Öw ³ 0
7	w À 0 , B 0 q	;	3	Öw ³ 0
7	Û º	0 q		3	º	³ 0 c 3 0
7	Û w À 0 q		3	Öw ³ 0
7	L q 0 Ó = w À		3	Öw ³ 0
7	V J ³ • Ö 0 0 q ‘ ö ³ 0 Q		1	à V] Q • ì
7	¦ ³ 0 ¹ q		7(	¦ Ÿ ö w] œ
7	¦ ¬ r)		7(	¦ Ÿ ö w] œ
7	¦ ^ p		7(	Ï ^ 8 0 c ¦ Ÿ ö w] œ
7	¦ § p • ì		7(	¦ Ÿ ö w] œ
7	· ñ] Q		3	ñ 0 c Ï ^ 8 0
7	·)		3	) 0
7	· â) ³ 0		7/	) 0
7	³ 0) º		3	Ï ^ 8 0
7	3)] Q)		3	) 0
7	^ P 8] Ö 0 0 q		1	à V] Q • ì
7	§ p] Q		7'	) 0
7	Ÿ ö w Ï ³ 0		7(	¦ Ÿ ö w] œ
7	Ÿ 3 0 q		3	Ÿ 3 0
7	Ÿ 3 0) º		3	Ÿ 3 0
7	˜ ~ “ ^ 0 q		4	~ “ ^ 0
7	^ p 0 $ p		3	) 0 c Ï ^ 8 0

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7	f ³ • Ö 0 0 q		1	à V] Q • ì
7	f ¦ Ö 0 0 q ‘ ö ³ 0 Q	;	7(	¦ Ÿ ö w] œ
7	f z Ö 0 0 q ‘ ö ³ 0 Q	;	1	) 0 c à ^ c [¦ c à • 0
7	f z)		3	) 0
7	f ’ ¦ Ö 0 0 q ‘ ö ³ 0 Q		7(	¦ Ÿ ö w] œ
7	£ Ý)		3	) 0
7	£ Ý à œ		7'	à V] Q • ì
7	í ß)		3	) 0
7	[à Ë		7'	à ^ c [¦ c à • 0
7	[ÿ w ÿ		7(	¦ Ÿ ö w] œ
7	ë º	0 0 q		3	º	³ 0 c 3 0
7	ë w À 0 q		3	Ö w ³ 0
7	w) 0 ð Ì Ñ		7(	¦ Ÿ ö w] œ
7	à)		7/	à ^ c [¦ c à • 0
7	D ! ë * à æ Ó		7)	à ^ c [¦ c à • 0
7	y ½ 0	;	3	ñ 0 c Ï ^ 8 0
7	ñ y ½ > • ì		3	ñ c Ï ^ 8 0
7	/ " V w À		3	Ö w ³ 0
7	/ ³ ñ		3	ñ c Ï ^ 8 0
7	/ ³) y ½ 0 ½ - 0 q		3	) 0
7	/ ³ ³ Ò ‡ W< –		)	) 0
7	/ ³ º	Ö 0 0 q ‘ ö ³ 0 Q		3	º	³ 0 c 3 0
7	/ ³ à œ		7'	à V] Q • ì
7	/ ³ w		7'	à V] Q • ì
7	/ ³ r	;	7'	à V] Q • ì
7	/ ³ r)		7'	à V] Q • ì
7	/ ³ Ê œ w À		6	Ö w ³ 0
7	/ ³ ¦ ž p		7(	¦ Ÿ ö w] œ
7	/ ³ [		3	à ^ c [¦ c à • 0
7	‡ W 0 ! œ		7'	à V] Q • ì
7	‘ ö y ½ 0 q		;	ñ 0
7	‘ ö ‡ W Š +	;	3	) 0
7	$ Q MURSRFHQH&RDWV í · º ! ç 3		M	º	³ 0 c 3 0
7	JOREDOJHROR\ ·) ç 3 Q		3	) 0
7	0 DULQH6FLHQFH%XOOHWLQ º	¹ q ç 3 Q		1	º	³ 0 c 3 0
7	1 DXUDO* DV,QGXVW %Ÿ ö w] œ %ç 3		M	¦ Ÿ ö w] œ

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7	3HWURO\P 5HVHDUFK¦ Y N ç 3		7(	¦ Ÿ ö w] œ
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	0 HWDOORJUDSK\ 0 LFURWWKFWXUH DQG $ QDO VLV
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	-RXUQDORI 7KH, QWWXWWRQ RI (QJLQHHUV ,QGLD 6HULHV'
	0 HWDOXUJLFDO 5 HVHDUFK 7 HFKQRORJ\
	,QWHUQDWRQDO-RXUQDORI &RUURVLRQ DQG 6FDOH, QKLELWRQ
	-RXUQDORI &RQWRODQG' HFLVLRQ Å %0 ... 0 q
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	-RXUQDORI VKH6RXWKHUQ$IULFDQ,QVWLWXWHRI 0 LQLQJ DQG0 HWDOXUJ\	
	-RXUQDORI 0 HWDOXUJLFDO(QJLQHHULQJ	;
	-RXUQDORI 3KDVH(TXLOLEULDDQG' LIIXVLRQ	
	6FLHQFHIRU 6LQWHULQJ	;
	-RXUQDORI 0 DWHULDOV(QJLQHHULQJ DQG3HUIRUPDQFH	
	&DQDGLDQ0 HWDOOXUJLFDO4 XDUWHUO\	
	0 HWDOOXUJLFDO5 HVHDUFK 7HFKQRORJ\	
	,URQ 6WHHO7HFKQRORJ\	
	-RXUQDORI VKH-DSDQ,QVWLWXWHRI 0 HWDOV	
	7KH,QWHUQDWLRQDO-RXUQDORI &DVW0 HWDOV5 HVHDUFK	
	0 HWDOOXUJLVW	
	7UDQVDFWLRQVRI ,QGLDQ,QVWLWXWHRI 0 HWDOV	
	0 HWDO6FLHQFHDQG+ HDW7 UHDWPHQW	
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	-RXUQDORI $ COR\ VDQG&RP SRXQGV	
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	-RXUQDORI \WH. RUHDQ,QWDXXVMRI 0 HVDOVDQG0 DVMULDOV	
	&RUURVLRQ(QJLQHHULQJ 6FLHQFHDQG7HFKQRORJ\	;
	7UDQVDFWRQRI \WH,QWDXXVMRI 0 HVDO) LQLVKLQJ	
	$GYDQFHG6\WHO&RQWUXFWRQ	;
	0 DVMULDOVDQG&RUURVLRQ	
	6XUIDFH(QJLQHHULQJ	
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	&RUURVLRQ6FLHQFH	ç ³	;
	,QVMUQDVWRQDO-RXUQDORI) DVWXH	ç ³	
	QSM0 DVMUDOV" HJUDGDWRQ	/ ³	
	3ROP HU' HJUDGDWRQ DQG6VDELOWV	ç ³	
7 ´ 3 L{ @　C ÂM”n H ?·,º E¹Q "j © y 7 U @µ			
	$ FVD0 HVDOXUJLFD6LQLFD (QJOVK / HWHUV	/ ³	
	$ QVV&RUURVLRQ0 HVKRGV DQG0 DVMUDOV	ç ³	
	&RQVWUFWRQ DQG%XLOGLQJ 0 DVMUDOV	ç ³	
	&RUURVLRQ	%³	
	&RUURVLRQ (QJLQHHULQJ 6FLHQFH DQG7HFKQRORJ\	ç ³	;
	) DVWXH　) UDFVXUH RI (QJLQHHULQJ 0 DVMUDOV　6VWKFVXUHV	ç ³	;
	,QVMUQDVWRQDO%LRGHVMUURUDWRQ　%LRGHJUDGDWRQ	ç ³	
	,QVMUQDVWRQDO-RXUQDORI +\ GURJHQ (QHJ\	ç ³	
	,QVMUQDVWRQDO-RXUQDORI 0 LQHUDOV0 HVDOXUJ\ DQG 0 DVMUDOV	/ ³	
	-RXUQDORI $ OR\ VDQG&RP SRXQGV	+ ¶	
	0 DVMUDOVDQG&RUURVLRQ: HUNWRII HXQG. RUURVLRQ	³	
	0 DVMUDOV&KDUDFVMUL DWRQ	%³	
	0 DVMUDOV&KHP LVWV DQG3K\ VLFV	+ ¶	
	+LJK7HP SHUDWXUH&RUURVLRQ RI 0 DVMUDOV	%³	
7 ´ 3 » L H ?· = p œe +, v AÚ%,º U @µ			
	&RUURVLRQ5HYLHZ V	ç ³	
	(QJLQHHULQJ) DLOXUH$ QDOVLV	ç ³	
	-RXUQDORI 0 DVMUDOV(QJLQHHULQJ DQG3HUIRUP DQFH	%³	

	0 HWDOY	+ ¶	
	6\QWKHWLF 0 HWDOY	+ ¶	
	7UDQVDFWLRQV RI 1RQHUURXV0 HWDOY6RFLHWLHV RI &KLQD	/ ³	
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	$&6 $SSOLHG0 DWHULDOV ,QWHUIDFHV	%³	
	$SSOLHG6XUIDFH6FLHQFH	à	
	&KHPLFDO(QJLQHHULQJ -RXUQDO	+ ¶	
7 ´ 3 L{ @ C ÂM"n H ?·,º E¹Q "j © y 7 U @µ			
	$GYDQFHG0 DWHULDOV,QWHUIDFHV	³	
	%LRIRXOLQJ	ç ³	
	&RORLGV DQG 6XUIDFHV $ 3K\VLFRFKHPLFDO DQG(QJLQHHULQJ $\SHFWV	à	
	&RORLGV/DQG6XUIDFHV%%LRLQWHUIDFHV	à	
	-RXUQDORI &RORLGDQG,QWHUIDFH6FLHQFH	%³	
	-RXUQDORI ,QGXVWULDODQG(QJLQHHULQJ &KHPLVWU\	Â ³	;
	-RXUQDORI 0 DWHULDOV6FLHQFHDQG7HFKQRORJ\	/ ³	
	3URJUHVVLQ6XUIDFH6FLHQFH	%³	
	6XUIDFHV/DQG,QWHUIDFHV	à	
	6XUIDFH &RDWLQJV7HFKQRORJ\	+ ¶	
	6XUIDFH6FLHQFH5HSRUWV	à	
	7KLQ6RLG) LOPV	à	
7 ´ 3 » L H ?· = p œe +, v AÚ%,º U @µ			
	&RDWLQJV	+ ¶	
	-RXUQDORI &RDWLQJV7HFKQRORJ\ DQG5HVHDUFK	%³	

	-RXUQDORI 7KHUPDO6SUD\ 7HFKQRORJ\	%³	
	6XUIDFHDQG,QWHUIDFH$QDO\VLV	ç ³	
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	&RUURVLRQ6FLHQFH	ç ³	;
	(OHFWURFKLPLFDO$FWLY	ç ³	
	-RXUQDORI VWH(OHFWURFKHPLFDO6RFLHWLHV	%³	
7 ´ 3 L{ @ C ÂM"n H ?·,º E¹Q "j © y 7 U @µ			
	$QDO\WLFD&KLPLFD$FWD	à	
	%LRHOHFWURFKHPLVWU\	à	
	&KHP (OHFWUR&KHP	³	
	(OHFWURFKHPLVWU\ &RPPXQLFDWLRQV	%³	
	-RXUQDORI (OHFWURDQDO\WLFDO&KHPLVWU\	+ ¶	
	-RXUQDORI 3K\VLFDO&KHPLVWU\ &	%³	
7 ´ 3 » L H ?· = p œe +, v AÚ%,º U @µ			
	(OHFWURDQDO\VLV	%³	
	,QWHUQDWLRQDO-RXUQDORI (OHFWURFKHPLFDO6FLHQFH	6 š P	
	-RXUQDORI 6RIG6\VWHP(OHFWURFKHPLVWU\	³	
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	$ SSOHG6XUFH6FLHQFH	à	
	&KHPLFDO(QJLQHHULQJ-RXUQDO	+ ¶	
	&RPSRVLWH6FLHQFHDQG7HFKQRORJ\	ç ³	
	-RXUQDORI 0 DMULDOY&KHPLVWU $	ç ³	
	3URJUHVVLQ2UJDQLF&RDWQJV	+ ¶	
7 ´ 3 L{ @ C ÂM"n H ?·,º E¹Q "j © y 7 U @µ			
	&RDWQJV	+ ¶	
	&RPSRVLWH3DUW$ $SSOHG6FLHQFHDQG0 DQXIDFWXULQJ	ç ³	;
	&RPSRVLWH3DUW%(QJLQHHULQJ	ç ³	
	' \HVDQG3LJPHQWV	ç ³	
	,QGXVWULDO (QJLQHHULQJ &KHPLVWU 5HVHDUFK	%³	
	-RXUQDORI $SSOHG3RO PHU6FLHQFH	%³	
	-RXUQDORI &RDWQJV7HFKQRORJ\ DQG5HVHDUFK	%³	
	-RXUQDORI &RORLG DQG,QMHFWLRQ6FLHQFH	%³	
	-RXUQDORI (OHFWURDQDO\WLFDO&KHPLVWU	+ ¶	
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	0$7+(0$7,6&+(11/(1		

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	0(02,562) 7+($0(5,&$1 0$7+(0$7,&$/ 62&,(7<		
	3(.,1* 0$7+(0$7,&$/ -2851$/ z 8 ô 0 v ç 3	2	
	352&((',1*62) 7+(/21'210$7+(0$7,&$/ 62&,(7<		
	38%/,&$7,2160$7+(0$7,48(6'(/,+(6		
	6&,(1&(&+,1$ 0$7+(0$7,&6 /³³0!ô0 ç 3 Q	2	

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	$&7$ $5,7+0(7,&$		
	$/*(%5$ 180%(57+(25<		
	$/*(%5$,&$1' *(20(75,&7232/2*<		
	$/*(%5$,&*(20(75<		
	$/*(%5$6$1' 5(35(6(17$7,217+(25<		;
	1/<6,6 3'(		;
	1/<6,6,17+(25< $1' $33/,&$7,216 Óe 8â0ë ç 3		
	11/(6'(/,167,787)285,(5		
	11/(6+(15,32,1&$5(		
	11/,'(//$ 6&82/$ 1250$/(683(5,25('3,6$ &/$66('6&,(1=(		;
	11/62) 3'(		
	11/62) 385($1' $33/,('/2*,&		
	%8//(7,1'(66&,(1&(60$7+(0$7,48(6		
	%8//(7,12) 7+($0(5,&$1 0$7+(0$7,&$/ 62&,(7<		
	%8//(7,12) 7+(/21'210$7+(0$7,&$/ 62&,(7<		
	&$/&8/862) 9$5,$7,216$1' 3$57,$/ ',))(5(17,$/(48$7,216		
	&1',$1-2851$/2) 0$7+(0$7,&6-2851$/ &$1$',(1'(0$7+(0$7,48(6		;
	&+,1(6(11/62) 0$7+(0$7,&66(5,(6% ô0-œ%€ ç 3 Q	2	
	&20%1$725,&$		
	&20%1$725,&6352%$%/,7< &20387,1*		
	&200(17$5,,0$7+(0$7,&,+(/9(7,&,		
	&2008 1,&$7,216,1$1$/<6,6$1' *(20(75<		
	&20081,&$7,216,13$57,$/ ',))(5(17,$/		

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	(48$7,216		
	&20 0 81,&$7,216 21 385($1' $33/,(' 1/<6,6 8 â 0 ë Óe ¹ ? ç 3		
	' ,6&5(7($1' &217,18286' <1$0 ,&$/ 6<67(0 6		
	' ,6&5(7(0$7+(0$7,&6		;
	(5*2' ,&7+(25< $1' ' <1$0 ,&$/ 6<67(0 6		
	(8523($1 -2851$/ 2) &20%1$725,&6		
	)2580 0$7+(0$7,&80		
	)2580 2) 0$7+(0$7,&6 3,		
	)5217,(56 2) 0$7+(0$7,&6		
	)81' $0(17$ 0$7+(0$7,&$(		
	(20(75< 7232/2<		
	,1' ,1 81,9(56,7< 0$7+(0$7,&6 -2851$/		
	,17(51$7,21$/ 0$7+(0$7,&6 5(6($5&+ 127,&(6		
	,65$(/ -2851$/ 2) 0$7+(0$7,&6		
	-2851$/ ' 1/<6(0$7+(0$7,48(		
	-2851$/ 2) $/*(%5$		
	-2851$/ 2) $/*(%5$,&*(20(75<		
	-2851$/ 2) &20%1$725,$/ 7+(25< 6(5,(6$		
	-2851$/ 2) &20%1$725,$/ 7+(25< 6(5,(6%		
	-2851$/ 2) ' ,))(5(17,$/ (48$7,216		
	-2851$/ 2) ' ,))(5(17,$/ *(20(75<		;
	-2851$/ 2))81&7,21$/ 1/<6,6		
	-2851$/ 2) *(20(75,& 1/<6,6		
	-2851$/ 2) *(20(75< $1' 3+<6,&6		
	-2851$/ 2) *5$3+ 7+(25<		
	-2851$/ 2) 0$7+(0$7,&$/ /2*,&		
	-2851$/ 2) 0$7+(0$7,&$/ 3+<6,&6		
	-2851$/ 2) 0$7+(0$7,&$/ 678' < ô 0 Y N ç 3	2	
	-2851$/ 2) 121&20 0 87$7,9(*(20(75<		
	-2851$/ 2) 180%(5 7+(25<		;
	-2851$/ 2) 3$57,$/ ' ,))(5(17,$/ (48$7,216 * Óº Q ç 3	2	;
	-2851$/ 2) 385($1' $33/,(' $/*(%5$		
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	-2851$/ 2) 6<0%2/,&/2*,&		
	-2851$/ 2) 6<03/(&7,&*(20(75<		
	-2851$/ 2) 7+(/21' 21 0$7+(0$7,&$/		

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	62&,(7< 6(&21' 6(5,(6		
	-2851$/ 2) 7232/2*<		
	/(77(56,1 0$7+(0$7,&$/ 3+<6,&6		
	0$7+(0$7,&$/ 352&((' ,1*62) 7+(&$0%5,' *(3+,/2623+,&$/ 62&,(7<		
	0$7+(0$7,&$/ 5(6($5&+ /(77(56		
	0$7+(0$7,6&+(=(,76&+5,)7		
	0e02,5(6'(/$ 62&,e7e0$7+e0$7,48(' ( )5$1&(		;
	3$&,),&-2851$/ 2) 0$7+(0$7,&6		
	327(17,$/ 1/<6,6		
	352&((' ,1*62) 7+($0(5,&$1 0$7+(0$7,&$/ 62&,(7<		
	352&((' ,1*62) 7+(52<$/ 62&,(7<2) (' ,1%85*+6(&7,21 $ 0$7+(0$7,&6		
	38%/ ,&$7,2162) 7+(5(6($5&+ ,167,787()25 0$7+(0$7,&$/ 6&,(1&(6		
	5(35(6(17$7,21 7+(25<		
	5(9,67$ 0$7(0$7,&$,%(52$0(5,&1		
	5866,$1 0$7+(0$7,&$/ 6859(<6		
	6%251,. 0$7+(0$7,&6		
	6(/(&7$ 0$7+(0$7,&$ 1(: 6(5,(6		
	6(0,*5283)2580		
	678' ,$ 0$7+(0$7,&$		
	7232/2*< $1' ,76$33/,&$7,216		
	75$16$&7,2162) 7+($0(5,&$1 0$7+(0$7,&$/ 62&,(7<		

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	$' 9$1&(' 121/,1($5 678' ,(6		
	$' 9$1&(6,1 &$/&8/862) 9$5,$7,216		
	$' 9$1&(6,1 *(20(75<		;
	$/*(%5$ &2//248,80 Ý ô , œ ç 3	2	
	$/*(%5$ 81,9(56$/,6		
	1/<6,6$1' 0$7+(0$7,&$/ 3+<6,&6		
	11/,' ,0$7(0$7,&$ 385$ (' $33/,&$7$		
	11/62) &20%1$725,&6		
	11/62) */2%$/ 1/<6,6$1' *(20(75<		;
	$33/,(' &$7(*25,&$/ 6758&785(6		
	$5&+,9()25 0$7+(0$7,&$/ /2*,&		

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	$6,$1 -2851$/ 2) 0$7+(0$7,&6		
	%&1&+ -2851$/ 2) 0$7+(0$7,&$/ 1/<6,6		
	%&8//(7,1 ' (/$ 62&,(7(0$7+(0$7,48(' ( )5$1&(		
	%&8//(7,1 2) 6<0%2/,&/2*,&		
	%&8//(7,1 2) 7+(8675/,$1 0$7+(0$7,&$/ 62&,(7<		
	&1' ,$1 0$7+(0$7,&$/ %&8//(7,1 %&8//(7,1 &1' ,(1 ' (0$7+(0$7,48(6		
	&2//248,80 0$7+(0$7,&80		
	&200 81,&$7,216,1 $/*(%5$		
	&200 81,&$7,216,1 &217(0325$5< 0$7+(0$7,&6		
	&200 81,&$7,216,1 0$7+(0$7,&$/ 5(6($5&+ ô 0 Y N¹ ? ç 3	2	
	&200 81,&$7,2162) 7+($0(5,&$1 0$7+(0$7,&$/ 62&,(7<		(,661
	&2037(65(1' 860$7+(0$7,48(		;
	' ,))(5(17,$/ $1' ,17(*5$/ (48$7,216		
	' ,))(5(17,$/ *(20(75< $1' ,76$33/,&$7,216		
	),1,7( ),(/' 6$1' 7+(,5$33/,&$7,216		
	),;(' 32,177+(25<		
	)2580 2) 0$7+(0$7,&66,*0$		
	*(20(75,$(' (',&$7$		
	*5$3+6$1' &20%1$725,&6		
	+,6725,$ 0$7+(0$7,&$		
	+286721 -2851$/ 2) 0$7+(0$7,&6		
	,17(*5$/ (48$7,216$1' 23(5$7257+(25<		;
	,17(*5$/ 75$16)2506$1' 63(&,$/)81&7,216		
	,17(51$7,21$/ -2851$/ 2) 0$7+(0$7,&6		;
	-2851$/ 2) $/*(%5$ $1' ,76$33/,&$7,216		
	-2851$/ 2) $/*(%5$,& &20%1$725,&6		
	-2851$/ 2) $3352;,0$7,217+(25<		
	-2851$/ 2) &20%1$725,$/ $/*(%5$		
	-2851$/ 2) &219(;$1$/<6,6		
	-2851$/ 2) ' <1$0,&6$1' ' ,))(5(17,$/ (48$7,216		
	-2851$/ 2) (92/87,21(48$7,216		
	-2851$/ 2)),;(' 32,177+(25< $1' $33/,&$7,216		
	-2851$/ 2) *52837+(25<		

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	-2851$/ 2) ,17(*5$/ (48$7,216$1' $33/,&$7,216		
	-2851$/ 2) . 127 7+(25< $1' ,76 5$0 ,),&$7,216		
	-2851$/ 2) /,(7+(25<		
	-2851$/ 2) 0$7+(0$7,&$/ 1/<6,6$1' $33/,&$7,216		;
	-2851$/ 2) 0$7+(0$7,&$/ 5(6($5&+: ,7+ $33/,&$7,216 ô 0 Y N ƒ ë ç 3	2	
	-2851$/ 2) 23(5$725 7+(25<		
	-2851$/ 2) 7+(8675/,$1 0$7+(0$7,&$/ 62&,(7<		
	-2851$/ 2) 7+(,167,787(2) 0$7+(0$7,&62) -866,(8		
	-2851$/ 2) 7+(.25($1 0$7+(0$7,&$/ 62&,(7<		
	-2851$/ 2) 7+(0$7+(0$7,&$/ 62&,(7< 2) -$3$1		
	-2851$/ 2) 7232/2*<$1' 1/<6,6		
	.<272 -2851$/ 2) 0$7+(0$7,&6		
	/,1($5 08/7,/,1($5 $/*(%5$		
	/,1($5 $/*(%5$ $1' ,76 $33/,&$7,216		
	/2*,&-2851$/ 2) 7+(,*3/		
	0$186&5,37$ 0$7+(0$7,&$		
	0$7+(0$7,&$/ /2*,&48$57(5/<		
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	0,&+,*$1 0$7+(0$7,&$/ -2851$/		
	0 21$76+()7( )85 0$7+(0$7,.		
	0 26&2: 0$7+(0$7,&$/ -2851$/		
	1275(' $0(-2851$/ 2))250$/ /2*,&		
	25'(5-2851/ 21 7+(7+(25< 2) 25'(5(' 6(76$1' ,76$33/,&$7,216		
	352&((',1*62) 7+((',1%85*+ 0$7+(0$7,&$/ 62&,(7<		
	352&((',1*62) 7+(67(./29 ,167,787(2) 0$7+(0$7,&6		
	38%/,&$7,21(60$7+(0$7,&$(' (%5(&(1		
	48$/,7$7,9(7+(25< 2)'<1$0,&$/ 6<67(06		
	48$57(5/<-2851$/ 2) 0$7+(0$7,&6		
	5$0$18-$1 -2851$/		

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	5(68/76,1 0$7+(0$7,&6		
	52&. < 02817$,1 -2851$/ 2) 0$7+(0$7,&6		
	67 3(7(56%85* 0$7+(0$7,&$/ -2851$/		
	67$7,67,&$/ 7+(25< $1' 5(/$7('),(/' 6 Ä ™8 â ƒ c ë ç 3		
	6<00(75<,17(*5$%/,7< $1' *(20(75<0(7+2'6$1' $33/,&$7,216		
	7+(25< $1' $33/,&$7,2162) &$7(*25,(6		;
	72.<2-2851$/ 2) 0$7+(0$7,&6		
	7232/2*,&$/ 0(7+2'6,1121/,1($5 1/<6,6		
	75$16)250$7,21 *52836		
	¢ Å ô 0 0 ë ô 0	2	
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	11/62) $33/,(' 67$7,67,&6		
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	11/62) 67$7,67,&6		
	%(5128//,		
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	&200 81,&$7,216,1 0$7+(0$7,&6$1' 67$7,67,&6 ô 0 0 Ä ™¹ ? ç 3		
	-2851$/ 2) 7+($0(5,&$1 67$7,67,&$/ $662&,$7,21		

	-2851$/ 2) 7+(52<$/ 67$7,67,&$/ 62&,(7< 6(5,(6%67$7,67,&$/ 0(7+2' 2/2*<		
	352%$%/,7< 7+(25< $1' 5(/$7('),(/' 6		

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	11/(6'(/ ,167,787+(15, 32,1&$5(352%$%/,7(6(7 67$7,67,48(6		
	11/62) $33/,(' 352%$%/,7<		
	118/ 5(9,(: 2) 67$7,67,&6$1' ,76 $33/,&$7,21		
	%$<(6,$1 1/<6,6		
	%267$7,67,&6		
	&1',$1 -2851$/ 2) 67$7,67,&6 5(98(&$1$',(11(' (67$7,67,48(		
	(/(&7521,&-2851$/ 2) 352%$%/,7<		
	),1$1&($1' 672&+$67,&6		
	,1685$1&(0$7+(0$7,&6 (&2120,&6		
	-2851$/ 2) &20387$7,21$/ $1' *5$3+,&$/ 67$7,67,&6		
	-2851$/ 2)),1$1&,$/ $1' 48$17,7$7,9(1/<6,6		
	-2851$/ 2) 08/7,9$5,$7(1/<6,6		;
	-2851$/ 2) 7+(52<$/ 67$7,67,&$/ 62&,(7< 6(5,(6$ 67$7,67,&6,1 62&,(7<		
	-2851$/ 2) 7+(52<$/ 67$7,67,&$/ 62&,(7< 6(5,(6& $33/,(' 67$7,67,&6		
	-2851$/ 2) 7+(25(7,&$/ 352%$%/,7<		
	-2851$/ 2) 7,0(6(5,(6$1$/<6,6		
	352%$%/,7< 81&(57$,17< $1' 48$17,7$7,9(5,6. Ñ â ò Gÿ 0 Gh ä ¢ ç 3	2	
	6&$1',1$9,$1 -2851$/ 2) 67$7,67,&6		
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	$' 9$1&(6,1 $33/,(' 352%$%/,7<		
	$' 9$1&(6,1 ' 7 1/<6,6$1' &/$66,),&$7,21		
	$/($/$7,1$0(5,&$1 -2851$/ 2) 352%$%/,7< $1' 0$7+(0$7,&$/ 67$7,67,&6		
	11/62) 7+(,167,787(2) 67$7,67,&$/ 0$7+(0$7,&6		
	$33/,(' 672&+$67,&02' (/6,1 %86,1(66$1' ,1' 8675<		
	8675/,$1 1(: =($/$1' -2851$/ 2) 67$7,67,&6		
	%20(75,&$/ -2851$/		
	%267$7,67,&6 (3,'(0,2/2*< “ ^ Ä ™0 û È 0 ç 3		
	&200 81,&$7,216,1 67$7,67,&6 7+(25< $1' 0(7+2' 6		
	&20387$7,21$/ 67$7,67,&6		
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	(/(&7521,&&200 81,&$7,216,1 352%$%/,7<		;
	(/(&7521,&-2851$/ 2) 67$7,67,&6		
	(;75(0(6		
	,1),1,7(',0(16,21$/ 1/<6,648$1780 352%$%/,7< $1' 5(/$7(' 723,&6		
	,17(51$7,21$/ 67$7,67,&$/ 5(9,(:		
	-2851$/ 2) $33/,(' 352%$%/,7<		
	-2851$/ 2) $33/,(' 67$7,67,&6		
	-2851$/ 2) &$86$/ ,1)(5(1&(		
	-2851$/ 2) 1213$5$0(75,&67$7,67,&6		
	-2851$/ 2) 5,6. $1' ,1685$1&(		
	-2851$/ 2) 67$7,67,&$/ &20387$7,21 $1' 6,08/$7,21		
	-2851$/ 2) 67$7,67,&$/ 3/$11,1* $1' ,1)(5(1&(		
	/,)(7,0(' 7 1/<6,6		
	0$5.29 352&(66(6$1' 5(/$7('),(/'6		
	0(75,. $		
	2;)25' %8//(7,12) (&2120,&6$1' 67$7,67,&6		
	5$1' 20 0$75,&(67+(25< $1' $33/,&$7,216		
	5,6. 1/<6,6		
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	352&(66(6		
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	67$7,67,&6$1',76,17(5)$&(		
	672&+$67,&$1$/<6,6$1'$33/,&$7,216		
	672&+$67,&02'(/6		
	672&+$67,&6$1''<1$0,&6		
	672&+$67,&6$1'3$57,$/',))(5(17,$/ (48$7,216$1$/<6,6$1'&20387$7,216		
	672&+$67,&6$1,17(51$7,21$/-2851$/2) 352%$%/,7<$1'672&+$67,&352&(66(6		
	7+(25<2) 352%$%/,7<$1',76$33/,&$7,216		;
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	$&7$180(5,&$		
	$5&+,9()255$7,21$/0(&+$1,&6$1' 1/<6,6		
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	,19(56(352%/(06		
	-2851$/2)&20387$7,21$/0$7+(0$7,&6 ™8ô0 ç3Q	2	
	0$7+(0$7,&$/02'(/6 0(7+2'6,1$33/,(' 6&,(1&(6		
	0$7+(0$7,&$/352*5$00,1*		
	0$7+(0$7,&62)&20387$7,21		
	0$7+(0$7,&62)23(5$7,2165(6($5&+		;
	180(5,6&+(0$7+(0$7,.		;
	6,$0-2851$/21$33/,(' 0$7+(0$7,&6		
	6,$0-2851$/21180(5,&$/$1$/<6,6		
	6,$0-2851$/216&,(17,),&&20387,1*		
	6,$05(9,(:		

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	$&7$ 0$7+(0$7,&$($33/,&7(6,1,&$ (1*/,6+ 6(5,(6 ë ô 0 0 q ç 3 Q	2	
	$' 9$1&(6,1 $33/,(' 0$7+(0$7,&6		
	$' 9$1&(6,1 $33/,(' 0$7+(0$7,&6$1' 0(&+$1,&6		
	$' 9$1&(6,1 &20387$7,21$/ 0$7+(0$7,&6		
	11/(6'(/,167,787+(15, 32,1&$5(1/<6(121/,1($,5(		
	$33/,(' $1' &20387$7,21$/ +$5021,& 1/<6,6		
	$33/,(' 0$7+(0$7,&6$1' 237,0,=$7,21		
	$33/,(' 180(5,&$/ 0$7+(0$7,&6		
	%7180(5,&$/ 0$7+(0$7,&6		
	&2008 1,&$7,216,1 0$7+(0$7,&$/ 6&,(1&(6		
	&20387$7,21$/ 237,0,=$7,21 $1' $33/,&$7,216		
	&216758&7,9($3352;,0$7,21		
	',6&5(7($33/,(' 0$7+(0$7,&6		;
	($67$6,$1 -2851$/ 21 $33/,(' 0$7+(0$7,&6		
	(6$,0 &21752/ 237,0,6$7,21 $1' &$/&8/86 2) 9$5,$7,216		
	(6$,0 0$7+(0$7,&$/ 02'(//,1* $1' 180(5,&$/ 1/<6,6 02'(/,6$7,21 0$7+(0$7,48((7$1$/<6(180(5,48(		;
	),1,7((/(0(176,1 1/<6,6$1' '(6,*1		;
	)281' $7,2162) &20387$7,21$/ 0$7+(0$7,&6		
	)8==<6(76$1' 6<67(06		
	,0$ -2851$/ 2) $33/,(' 0$7+(0$7,&6		
	,0$ -2851$/ 2) 180(5,&$/ 1/<6,6		
	,17(51$7,21$/ -2851$/ 2) 180(5,&$/ 1/<6,6$1' 02'(/,1*		
	,19(56(352%(06$1' ,0$*,1*		
	-2851$/ 2) &20%1$725,$/ 237,0,=$7,21		
	-2851$/ 2))285,(5$1$/<6,6$1' $33/,&$7,216		
	-2851$/ 2) */2%$/ 237,0,=$7,21		
	-2851$/ 2) 0$7+(0$7,&$/ ,0$*,1* $1' 9,6,21		

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	-2851$/ 2) 121/,1($5 6&,(1&(		
	-2851$/ 2) 237,0,=$7,21 7+(25< $1' $33/,&$7,216		
	-2851$/ 2) 6&,(17,),& &20387,1*		
	-2851$/ 2) 6<0%2/,& &20387$7,21		
	.,1(7,& $1' 5(/$7(' 02' (/6		
	121/,1($5,7<		
	180(5,&$/ $/*25,7+06		
	180(5,&$/ /,1($5 $/*(%5$:,7+ $33/,&$7,216		
	180(5,&$/ 0$7+(0$7,&6 7+(25< 0(7+2' 6 $1' $33/,&$7,216 : 0Î ™8 ô 0 0 q ç 3 Q	2	
	237,0,=$7,21 /(77(56		
	237,0,=$7,21 0(7+2' 6 62)7: $5(		
	5$1' 20 6758&785(6 $/*25,7+06		
	6,$0 -2851$/ 21 $33/,(' '<1$0,&$/ 6<67(06		
	6,$0 -2851$/ 21',6&5(7(0$7+(0$7,&6		
	6,$0 -2851$/ 21,0$*,1* 6&,(1&(6		
	6,$0 -2851$/ 21 0$7+(0$7,&$/ 1/<6,6		
	6,$0 -2851$/ 21 0$75,; 1/<6,6$1' $33/,&$7,216		
	678',(6,1 $33/,(' 0$7+(0$7,&6		
	=$00 =(,76&+5,)7)85$1*(: $1' 7(0$7+(0$7,. 81' 0(&+$1,.		

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	$' 9$1&(6,1 121/,1($5 1/<6,6		
	1/<6,6$1' $33/,&$7,216		
	11/62) $33/,(' 0$7+(0$7,&6 ë ô 0 - œ ç 3	2	
	$33/,(' 0$7+(0$7,&6$1' 0(&+$1,&6(1*/,6+(' ,7,21 ë ô 0 ä O0 ç 3	2	
	$33/,(' 0$7+(0$7,&6/(77(56		
	$33/,(' 0$7+(0$7,&6$ -2851$/ 2) &+,1(6(81,9(56,7,(66(5,(6% : Î ë ô 0 0 q %€ ç 3 Q	2	
	$6<0 3727,& 1/<6,6		
	&$/&2/2		
	&200 81,&$7,216,1 1/<6,6$1' 0(&+$1,&6		

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	&20081,&$7,21621 $33/,(' 0$7+(0$7,&6 $1' &20387$7,21 ë ô00™8ô00q ç3	2	
	&20387$7,21$/ $1' $33/,(' 0$7+(0$7,&6		
	&20387$7,21$/ 0(7+2'6,1 $33/,(' 0$7+(0$7,&6		
	',6&5(7(&20387$7,21$/ *(20(75<		
	',6&5(7($1' &217,18286'<1$0,&$/ 6<67(0660(5,(6%		
	(/(&7521,&-2851$/ 2) &20%1$725,&6		
	(/(&7521,&75$16$&7,21621 180(5,&$/ 1/<6,6		
	(8523($1-2851$/ 2) $33/,(' 0$7+(0$7,&6		
	)5$&7,21$/ &$/&8/86$1' $33/,(' 1/<6,6		
	,0-2851/ 2) 0$7+(0$7,&$/ &21752/ $1' ,1)250$7,21		
	-2851$/ 2) $33/,(' 1/<6,6$1' &20387$7,21		;
	-2851$/ 2) &20%1$725,$/ '(6,*16		
	-2851$/ 2) &203/(;,7<		;
	-2851$/ 2) &20387$7,21$/ $1' $33/,(' 0$7+(0$7,&6		
	-2851$/ 2) &5<372/2*<		
	-2851$/ 2)',))(5(1&((48$7,216$1' $33/,&$7,216		
	-2851$/ 2)+<3(5%2/,&',))(5(17,$/ (48$7,216		
	-2851$/ 2)121/,1($502'(/,1* $1' 1/<6,6		
	0$7+(0$7,&$/ 0(7+2'6,17+($33/,(' 6&,(1&(6		
	0$7+(0$7,&$/ 0(7+2'62)23(5$7,216 5(6($5&+		
	121/,1($5$1$/<6,65($/:25/' $33/,&$7,216		
	121/,1($5$1$/<6,67+(25<0(7+2'6 $33/,&$7,216		;
	180(5,&$/ 0(7+2'6)253$57,$/ ',))(5(17,$/ (48$7,216		;
	237,0$/ &21752/ $33/,&$7,216 0(7+2'6		
	237,0,=$7,21		
	3$&,),&-2851$/ 2) 237,0,=$7,21		

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	48$57(5/<2) $33/,(' 0$7+(0$7,&6		;
	: 0Î ™8ô00q /3Q	2	;
	:Î ë ô00q$€ /3Q	2	
	™8ô0 /3Q	2	
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	%2,1)250$7,&6		
	&200 81,&$7,216,1 &20387$7,21$/ 3+<6,&6		
	&20387(5$,'(' *(20(75,&'(6,*1		
	&20387(50(7+2'6,1 $33/,(' 0(&+$1,&6 $1'(1*,1((5,1*		
	-2851$/ 2) &20387$7,21$/ 3+<6,&6		
	-2851$/ 2) 0$7+(0$7,&$/ %2/2*<		
	-2851$/ 2) 7+(23(5$7,2165(6($5&+ 62&,(7<2) &+,1$ /³nt0VVœ ç3	2	;
	0$7+(0$7,&$/),1$1&(		
	08/7,6&$/(02'(/,1* 6,08/$7,21		
	6,$0 -2851$/ 21 &21752/ $1' 237,0,=$7,21		
	6,$0 -2851$/ 21 237,0,=$7,21		

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	$33/,(' 0$7+(0$7,&$/ 02'(//,1*		;
	$5&+,9(62) &20387$7,21$/ 0(7+2'6,1 (1*,1((5,1*		
	$67,1 %8//(7,1		
	%8//(7,1 2) 0$7+(0$7,&$/ %2/2*<		
	&+$26		
	&20387$7,21$/ 0(&+$1,&6		
	&20387(56)/8,'6		
	'(6,*16&2'(6$1' &5<372*5$3+<		
	,17(51$7,21$/ -2851$/)25180(5,&$/ 0(7+2'6,1 %20(',&$/ (1*,1((5,1*		

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	,17(51$7,21$/ -2851$/)25 180(5,&$/ 0(7+2' 6,1 (1*,1((5,1*		
	,17(51$7,21$/ -2851$/)25 180(5,&$/ 0(7+2' 6,1)/8,' 6		
	,17(51$7,21$/ -2851$/)25 81&(57$,17< 48$17,),&$7,21		
	,17(51$7,21$/ -2851$/ 2) $3352; ,0$7(5($621,1*		;
	,17(51$7,21$/ -2851$/ 2) %20$7+(0$7,&6		
	,17(51$7,21$/ -2851$/ 2) 180(5,&$/ 0(7+2' 6)25 +($7)/8,')/2:		
	-2851$/ 2) 67$7,67,&$/ 3+<6,&6		
	-2851$/ 2) 6<67(066&,(1&(&203/(;,7< , Ä³ 00 vÿ0q ç3	2	
	0$7+(0$7,&$/ *(26&,(1&(6		
	0$7+(0$7,&6$1' &20387(56,16,08/$7,21		
	0$7+(0$7,&6$1' 0(&+$1,&62) 62/,' 6		
	3+<6,&$' 121/,1($53+(120(1$		
	3/26&20387$7,21$/ %2/2*<		;
	6,$0 -2851$/ 21 &20387,1*		
	6,$0 -2851$/ 21),1$1&,$/ 0$7+(0$7,&6		;
	6,$0 -2851$/ 21 0$7+(0$7,&62) '7 6&,(1&(		
	6,$0 6 -2851$/ 21 81&(57$,17< 48$17,),&$7,21		
	=(,76&+5,)7)85$1*(: $1' 7(0$7+(0$7,. 81' 3+<6,.		

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	$/*25,7+0,&$		
	%0&%2,1)250$7,&6		
	%5,(),1*6,1 %2,1)250$7,&6		
	&200 81,&$7,216,1 121/,1($56&,(1&($1' 180(5,&$/ 6,08/$7,21		
	&20387$7,21$/ 0$7+(0$7,&6$1' 0$7+(0$7,&$/ 3+<6,&6		
	',6&5(7(237,0,=$7,21		
	'<1$0,&*$0(6$1' $33/,&$7,216		
	(1*,1((5,1* 1/<6,6:,7+ %281' $5< (/(0(176		
	(1*,1((5,1* &20387$7,216		

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(19,5210(17$/ $1' (&2/2*,&$/ 67$7,67,&6

)5$&7$/6 &203/(; *(20(75<3$77(516$1'

6&$/,1* ,1 1$785($1' 62&,(7<

,0-2851/2)0$1$*(0(170$7+(0$7,&6

,17(51$7,21$/-2851$/)2508/7,6&$/(

&20387$7,21$/(1*,1((5,1*

,17(51$7,21$/-2851$/2)%)85&$7,21$1'

&+$26

,19(56(352%/(06,16&,(1&(1&($1'

(1*,1((5,1*

-2851$/2)&20387$7,21$/%2/2*<

-2851$/2)(1*,1((5,1*0$7+(0$7,&6

-2851$/2),1'8675,$/$1'0$1$*(0(17

237,0,=$7,21

-2851$/2)0$7+(0$7,&$/&+(0,675<

-2851$/2)0$7+(0$7,&$/(&2120,&6

-2851$/2)0$7+(0$7,&$/)/8,'0(&+$1,&6

-2851$/2)7+(23(5$7,21$/5(6($5&,•8@1

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	0 $7(5,$/6$1' &25526,21 : (5. 672))(81' . 25526,21		7
	7+,1 62/,'),/0 6		7
	-2851$/ 2) (/(&7521,&0$7(5,$/6		7
	$33/,(' 3+<6,&6$ 0$7(5,$/6 6&,(1&(352&(66,1*		7
	$GYDQFHVLQ1DQR5HVHDUFK	;	7
	-2851$/ 2) &5<67$/ *52: 7+		7
	-2851$/ 2) 0$7(5,$/65(6($5&+		7
	-2851$/ 2) 1$123$57,&/(5(6($5&+		7
	-2851$/ 2) ,17(//,*(170$7(5,$/ 6<67(06$1' 6758&785(6	;	7
	-RXUQDORI1DQRP DWHULDOV		7
	$&6$SSOLHG(QHUJ\ 0DWHULDOV		7
	$&,6758&785$/-2851$/		7
	6XUIDFHEHK0DWHULDOVDQG7HFKQRORJLHV		7
	,QWHUQDWLRQDO-RXUQDORI &RQFUHWH6WUXFWXUHV DQG0DWHULDOV		7
	$&,0$7(5,$/6-2851$/	;	7
	$'9$1&(6,1&(0(175(6($5&+		7
	-RXUQDORI6FLHQFH$GYDQFHG0DWHULDOVDQG'HYLFHV		7
	,QWHUQDWLRQDO0DWHULDOVDQG0DQXIDFWXULQJ ,QQRYDWLRQ		7
	0HPEUDQHV		7
	1DQR)XXUHV		7
	-RXUQDORI1DQRWXFWXUHLQ&KHP LVWU		7

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	0 DJQHWRFKHP LWW		7

c 3] L| c 9' ½ 7 Aú4ÝU @´ @COÌ • " Lƒ Å È M µ			
3 » U @Å -	U @C0&	, 661	&1
	-RXUQDORI : XKDQ8 QLYHUVLWV RI 7HFKQRORJ\ 0 DWHULDOV6FLHQFH(GLWRQ S Ñ 8] Ö 0 0 q ë x ³ 0 Q ç 3		7%
	ë x ³ 0 0] ¼ 0 DWHULDOV6FLHQFH DQG7HFKQRORJ\		7%
	Ø l ˜ !] œ 3RZ GHU0 HWDOXUJ\ ,QGXVW		7)
	D ! ë ³ 0 0] Q 1 RQ HUURXV0 HWDOV6FLHQFH DQG (QJLQHHULQJ		7)
	ë x l 0 DWHULDOV3URWHFWRQ		7%
	h º ! ë 6KDQJKDL0 HWDOV		7)
	Ê P 1 æë x) LEHU5 HLQ RUFHG3ODWWFV &RP SRVLWH		78
	_ Ÿ ë x 0 v Ñ 0 q -RXUQDORI) XQFWRQDO0 DWHULDOV DQG ' HYLFHV		7%
	‡ X ë x ,QVXODWQJ 0 DWHULDOV		70
	; ! * RQG		7)
	1 - - û ,URQ6WHO9 DQDGLXP 7LWDQLXP		7)

	D ! ë] Q 1 RQ HUURXV0 HWDOY		7)
	û] œ) º 7LWDQLXP		7*
	! ë _ Ÿ ë x 0 HWDOF) XQFWRQDO0 DWWULDOY		7*
	ë x —Ÿ 0 ë ' HYHORSP HQWDOG$SSOLFDWRQRI 0 DWWULDOY		7%
	/ ³ œ &KLQD0 R0EGHQXP ,QGXVWU		7)
	÷) æ! &HP HQWG&DUELGH		7)
	D ! ë ë x 0] Q 1 RQ HUURXV0 HWDO0 DWWULDOYDQG (QJLQHHULQJ		7)

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	0 HWDOY		7
	0 DWWULDOY		7
	0 DWWULDOY5HVHDUFK([SUHVV		7
	$,3$GYDQFHV		7
	-2851$/ 2) 0$7(5,$/6 (1*,1((5,1* $1' 3(5)250 $1&(		7
	0 ,&526<67(0 7(&+12/2*,(60,&52 $1' 1$126<67(06,)250 $7,21 6725$*($1' 352&(66,1* 6<67(06		7

	3+<6,&$ 67$786 62/,', $ $33/,&$7,216$1' 0$7(5,$/6 6&,(1&(		7
	(&6-RXUQDORI6RIG6WDWH6FLHQFHDQG7HFKQRORJ\		7
	-2851$/ 2) 1$126&,(1&($1' 1$127(&+12/2*<		7
	3DPPRQLFV		7
	,(((7UDQVDFWLRQVRQ&RPSRQHQWV3DFNDJLQJ DQG0 DQXIDFWXULQJ7HFKQRORJ\		7
	0 56&RPPXQLFDWLRQV		7
	-2851$/ 2) $' +(6,21 6&,(1&($1' 7(&+12/2*<		7
	(8523($1 3+<6,&$/ -2851$/ (		7
	0 2' (//,1* $1' 6,08/$7,21 ,1 0$7(5,$/66&,(1&($1' (1*,1((5,1*		7
	352&((',1*62) 7+(,167,787,21 2) 0(&+$1,&$/ (1*,1((563$57/ -2851$/ 2) 0$7(5,$/6'(6,*1 $1' $33/,&$7,216		7
	$GYDQFHVLQ3URGXFWLRQ(QJLQHHULQJ 0 DQDJHPHQW		7
	(OHFWURQLF0 DWHULDOV/ HWWHUV		7
	),5(7(&+12/2*<		7
	. 21$ 3RZGHUDQG3DUWFOH-RXUQDO		7
	0$7(5,$/67(&+12/2*<		7
	-2851$/ 2) /$6(5 $33/,&$7,216	;	7
	&DUERQ/ HWWHUV		7
	&XUUHQW1 DQRVFLHQFH		7
	-RXUQDORI3KRWRFKHPLVWU\(QHUJ\		7

	6XUDFH7RSRJUDSK\ 0 HWRGRJ\ DQG 3URSHUWLHV	;	7
	1 DQRP DWHULDOV DQG 1 DQRWHFKQRORJ\		7
	0 $7(5,$/6 $7 +,* + 7(0 3(5$785(6		7
	0 $7(5,$/(6' (&216758&&,21		7
	-RXUQDORI (QHUJHWF 0 DWHULDOV		7
	$72 0 ,=$7,21 $1' 635$<6		7
	* 2/' %8//(7,1	;	7
	-RXUQDORI $GYDQFHG&RQFUHWH 7HFKQRORJ\		7
	-2851$/ 2)),5(6&,(1&(6		7
	$GYDQFHVLQ0 DWHULDOV6FLHQFHDQG (QJLQHHULQJ		7
	0 DWHULDOV5HVHDUFK ,EHUR DP HULFDQ -RXUQDORI 0 DWHULDOV		7
	0 $7(5,$/6 75$16$&7,216		7
	%8//(7,1 2) 0 $7(5,$/6 6&,(1&(		7
	1$12		7
	) XQFWLRQDO0 DWHULDOV/ HWWHUV		7
	)8//(5(1(61$12 78%(6$1' &$5%21 1$12 6758&785(6	;	7
	),5($1' 0 $7(5,$/6		7
	-RXUQDORI VWH6RFLHWVIRU,QRUP DWLRQ ' LVSOD\		7
	-RXUQDORI 0 LFUR1 DQR2LWRJUDSK\ 0 (0 6 DQG0 2(0 6		7
	5(9,(: 6 21 $' 9$1&(' 0 $7(5,$/6&,(1&(		7
	0 DWHULDOV([SUHVV		7
	. RUHDQ-RXUQDORI 0 HWDOV DQG0 DWHULDOV		7

-2851$/ 2) 3+$6((48,/,%5,$ $1' ',))86,21 7

-2851$/ 2) (1*,1((5,1* 0$7(5,$/6$1' 7(&+12/2*< 75$16$&7,2162) 7+($60(7

*UHHQ0DWULDOV 7

5HFHQW3DWQWVRQ1DQRWHFKQRORJ\ 7

&,5&8,7: 25/' 7

-2851$/ 2) 0,&52: $9(32: (5 $1' (/(&7520$*1(7,&(1(5*< 5HYLVWD5RPDQDGH0DWULDOH5RPDQLDQ -RXUQDORI 0DWULDORPD VD 7

	5(9,(: 62) (19,5210(17$/ &217$0,1$7,21 $1' 72; ,&2/2*<	
	-2851$/ 2) 85%$1 +($/7+ %8//(7,12) 7+(1(: <25. $&$' (0<2) 0(' ,&,1(	
	(3,' (0,2/2*< $1' ,1)(&7,21	
	(19,5210(17$/ *(2&+(0,675< $1' +($/7+	
	6&$1' ,1$9,$1 -2851$/ 2) : 25. (19,5210(17 +($/7+	
	-2851$/ 2) +($/7+ (&2120,&6	
	-2851$/ 2) +($/7+ 32/,7,&6 32/,&< $1' /$:	
	(19,5210(17$/ +($/7+	;
	-2851$/ 2) (; 32685(6&,(1&($1' (19,5210(17$/ (3,' (0,2/2*<	
	-2851$/ 2) $' 2/(6&(17 +($/7+	;
	1$1272; ,&2/2*<	
	72; ,&2/2*< /(77(56	
	(3,' (0,2/2*<	
	0(' ,&$/ &$5(5(6($5&+ $1' 5(9,(:	
	+($/7+ (; 3(&7$7,216	
	+($/7+ 3/$&(	
	-2851$/ 2) 38%/,& +($/7+	
	67$7,67,&6,1 0(' ,&,1(	
	72; ,&2/2*< $1' $33/,(' 3+$50 $&2/2*<	;
	72; ,&2/2*<	;
	(19,5210(17$/ 72; ,&2/2*< $1' 3+$50 $&2/2*<	
	72; ,16	
	$0(5,&$1 -2851$/ 2) ,1' 8675,$/ 0(' ,&,1(	
	38%/,& +($/7+ 1875,7,21	
	%5,7,6+ -2851$/ 2) *(1(5$/ 35$&7,&(	
	38%/,& +($/7+	
	5(*8/$725< 72; ,&2/2*< $1' 3+$50 $&2/2*<	
	$17,0,&52%$/ 5(6,67$1&($1' ,1)(&7,21 &21752/	

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Å -	7 U @C0&
	$,$ $ -RXUQDO
	&KLQHVH-RXUQDORI $ HURQDXWLFV
	&RP SXWHU0 HWKRGVLQ$ SSOLHG0 HFKDQLFVDQG(QJLQHHULQJ
	,QWHUQDWLRQDO-RXUQDORI 0 HFKDQLFDO6FLHQFHV
	-RXUQDORI 6RXQGDQG9 LEUDWLRQ
	-RXUQDORI 9 LEUDWLRQDQG$ FRXVWLFV7 UDQVDFWLRQVRI \WH$ 60 (
	-RXUQDORI 9 LEUDWLRQDQG&RQWURO
	0 HFKDQLFDO6\ VWHP VDQG6LJQDO3URFHVVLQJ
	1 RQOLQHDU \ QDP LFV
	6\VWHPVUDO&RQWURO +HDOWK0 RQLWRULQJ
	6\VWHPVUDO+HDOWK0 RQLWRULQJ $ Q,QWHUQDWLRQDO-RXUQDO
	9 HKLFOH6\ VWHP ' \QDP LFV
	o à] Q 0 q
	Ò•] Q 0 q
	ò N] Q 0 q

Å -	7 U @C0&
	$ FWD$ \WRQDXWLFD
	$ FWD0 HFKDQLFD6LQLFD
	$ HURVSDFH6FLHQFHDQG7HFKQRORJ\
	$ SSOLHG$ FRXVWLFV
	&RP SRVLWH6\VWHPVUHV
	&RP SXWHU 6\VWHPVUHV
	(DUWKTXDNH(QJLQHHULQJ 6\VWHPVUDO \QDP LFV
	(QJLQHHULQJ 6\VWHPVUHV
	(XURSHDQ-RXUQDORI 0 HFKDQLFV$ 6ROGV
	,(((7UDQVDFWLRQV RQ9 HKLFXODU7 HFKQRORJ\
	,QWHUQDWLRQDO-RXUQDO RU1 XP HULFDO0 HWKRGVLQ(QJLQHHULQJ
	,QWHUQDWLRQDO-RXUQDORI $ HURFRXVWLFV
	,QWHUQDWLRQDO-RXUQDORI (QJLQHHULQJ 6FLHQFH

	,QVMUQDWRQDO-RXUQDORI ,P SDFW(QJLQHHULQJ
	,QVMUQDWRQDO-RXUQDORI 1 RQ/ LQHDU0 HFKDQLFV
	,QVMUQDWRQDO-RXUQDORI 6WXFWXUDO6WDELOWV DQG' \ QDP LFV
	-RXUQDORI $ SSOLHG0 HFKDQLFV7 UDQVDFWRQVRI WKH$ 60 (
	-RXUQDORI) OXLGVDQG6WXFWXUHV
	-RXUQDORI / RZ) UHTXHQF\ 1 RLVH9 LEUDWRQ DQG$ FWXYH&RQWRO
	-RXUQDORI : LQG(QJLQHHULQJ DQG,QGXWWDO$ HURG\ QDP LFV
	0 HFKDQLVP DQG0 DFKLQH7 KHRU\
	2 FHDQ(QJLQHHULQJ
	6FLHQFH&KLQD3K\ VLFV0 HFKDQLFV $ WWRQRP \
	6LJQDO3URFHWVLQJ
	6P DUW0 DVMULDOVDQG6WXFWXUHV
	6P DUW6WXFWXUHVDQG6\ WWP V
	8 OWDVRQLFV
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Å -	7 U @C0&
	$ FWV0 HFKDQLFD
	$ SSOLHG0 DWKHP DWFVDQG0 HFKDQLFV(QJOVK(GLWRQ
	$ SSOLHG2 FHDQ5 HVHDUFK
	&KDRV
	&KLQHVH-RXUQDORI 0 HFKDQLFDO(QJLQHHULQJ
	(DUWKTXDNH(QJLQHHULQJ DQG(QJLQHHULQJ 9 LEUDWRQ
	(QJLQHHULQJ) DLOXUH$ QDOVLV
	([WHP H0 HFKDQLFV/ HWWLV
	,QVMUQDWRQDO-RXUQDORI $ FRXWWFVDQG9 LEUDWRQ
	,QVMUQDWRQDO-RXUQDORI $ HURVSDFH(QJLQHHULQJ
	,QVMUQDWRQDO-RXUQDORI $ SSOLHG0 HFKDQLFV
	,QVMUQDWRQDO-RXUQDORI %LLXUFDWRQ DQG&KDRV
	,QVMUQDWRQDO-RXUQDORI 6ROLGVDQG6WXFWXUHV
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	-RXUQDORI &RP SXWDWRQDODQG1 RQOLQHDU' \ QDP LFV
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	6KRFNDQG9 LEUDWRQ
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	(QYLURQP HQWDO6 FLHQFH 7 HFKQRORJ\	7
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	-RXUQDORI (QYLURQP HQWDO6 FLHQFHV	7
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	1 DWXUH&OLP DWH&KDQJH	7
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	(FRV\ VWHP + HDOW DQG6 XVWDLQDELOW	7
	(QYLURQP HQW/QWHUQDWRQDO	7
	(QYLURQP HQWDO,QQRYDWRQ DQG6 RFLHWDO7 UDQVLWRQV	7
	(QYLURQP HQWDO0 LFURELRORJ\	7
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	) URQWHUV LQ(FRORJ\ DQG VKH(QYLURQP HQW	7
	* OREDO(QYLURQP HQWDO&KDQJH	7
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	-RXUQDORI &OHDQHU3 URGXFWRQ	7
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	&KLQHVH -RXUQDO RI 3RSXODWLRQ 5HVRXUFHV DQG(QYLURQP HQW	7
	&UWLFDO5HYLHZ VLQ%LRWHFKQRORJ\	7
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	-RXUQDO RI (QYLURQP HQWDO(FRQRP LFV DQG0 DQDJHP HQW	7
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	-RXUQDO RI 6RLODQG: DWHU&RQVHUYDWLRQ	7
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7	Journal of The Textile Institute	T1
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14	Fashion and Textiles	T2
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33	Industria Textila	T3
34	Journal of Engineered Fibers and Fabrics	T3
35	Journal of Fiber Science and Technology	T3
36	Journal of The American Leather Chemists Association	T3
37	Journal of Vinyl & Additive Technology	T3
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	, QVMUQDWRQDO - RXUQDORI , P SDFW (QJ LQHHULQJ
	, QVMUQDWRQDO - RXUQDORI 0 HFKDQLFDO 6 FLHQFHV
	, QVMUQDWRQDO - RXUQDORI 3 ODWWFLWV
	- RXUQDORI $ OOR\ V DQG & RP SRXQGV
	- RXUQDORI) OXLG 0 HFKDQLFV
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	- RXUQDORI 6 RXQG DQG 9 LEUDWRQ
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	-RXUQDORI 0 DWHULDOV6FLHQFH
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	-RXUQDORI) OXLG DQG6WUXFWXUHV	,661
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	-RXUQDORI 0 DULQH6FLHQFH$QG7HFKQRORJ\	,661
	-RXUQDORI 0 DULQH6FLHQFHQGSSOLFDWLRQ	7 &1
	-RXUQDORI 2FHDQ(QJLQHHULQJ DQG6FLHQFH	,661
	-RXUQDORI 2IIVKRUH0 HFKDQLFVQGUFWF (QJLQHHULQJ 7UDQVDFWLRQVRI \WH$\VP H	,661
	-RXUQDORI 6KLS3URGXFWLRQDQG' HVLJQ	,661
	-RXUQDORI 6KLS5HVHDUFK	,661
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7	-RXUQDORI&RPSDUDWLYH(FRQRPLFV		
7	-RXUQDORI'HYHORSPHQW6WXGLHV		
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7	-RXUQDORI , QWHUQDWRQDO HYHORSP HQW		
7	-RXUQDORI 5 HDO(WDWH 5 HVHDUFK		
7	-RXUQDORI 5 HYHQXH DQG 3 ULFLQJ 0 DQDJHP HQW		
7	0 DQDJHULDODQG' HFLVLRQ(FRQRP LFV		
7	0 DQFKHWHU 6 FKRRO		
7	1 DWRQDO 7 D[-RXUQDO		
7	2 [IRUG' HYHORSP HQW 6 WXGLHV		
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7	) DP LO %XVLQHW 5 HYLHZ		
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7	5HOLDELOLW(QJLQHHULQJ 6\VWHP 6DIHW		
7	6DIHW6FLHQFH		
7	6HFXULW' LDORJXH		
7	' LVDVWHU3UHYHQWLRQDQG0 DQDJHPHQW		
7	,QWHUQDWLRQDO-RXUQDORI ' LVDVWHU5LVN5HGXFWLRQ		
7	,QWHUQDWLRQDO-RXUQDORI ' LVDVWHU5LVN6FLHQFH		
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7	,QWHUQDWLRQDO-RXUQDORI 3URMHFW0 DQDJHPHQW		
7	-RXUQDORI &LYLO(QJLQHHULQJ DQG0 DQDJHPHQW		
7	-RXUQDORI &RQWUDFWRQ(QJLQHHULQJ DQG 0 DQDJHPHQW		
7	-RXUQDORI 0 DQDJHPHQWQ(QJLQHHULQJ	;	
7	%XLOGLQJ5HVHDUFK DQG,QIRUPDWRQ		
7	&RQWUDFWRQ,QQRYDWRQ		
7	(QJLQHHULQJ &RQWUDFWRQ DQG$UFKLWHFWXUDO 0 DQDJHPHQW		
7	-RXUQDORI &RP SXWQJ LQ&LYLO(QJLQHHULQJ		
7	-RXUQDORI ,QIUDVWUXFWXUH6\VWHP V		
7	3URMHFW0 DQDJHPHQWRXUQDO		

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<4Ý	U @C0&	,661 (,661	&1@-
7	* RYHUQDQFH		
7	-RXUQDORI 3XEOF$ GP LQLVWUDWRQ5HVHDUFK DQG 7KHRU		
7	3XEOF$ GP LQLVWUDWRQ		

<4Ý	U @C0&	,661 (,661	&1@-
7	3XEOF$GPLQLWDWRQ5HYLHZ		
7	3XEOF0DQDJHPHQW6HYLHZ		
7	$GPLQLWDWRQ 6RFLHWV		
7	$PHUFDQ5HYLHZ RI 3XEOF$GPLQLWDWRQ		
7	*RYHUQPHQWRUPDWRQ4XDUWHUO	;	
7	,QWHUQDWRQDO3XEOF0DQDJHPHQWRXUQDO		
7	-RXUQDORI 3RDF\ $QDO\VLVDQG0DQDJHPHQW		
7	1RQSURILWDQG9RXQWDU6HFWRU4XDUWHUO		
7	3RDF\ DQG3RODWLFV		
7	3XEOF2SLQLRQ4XDUWHUO	;	
7	5HJXODWRQ *RYHUQDQFH		
7	$XVWUDOLDQ-RXUQDORI 3XEOF$GPLQLWUDWRQ		
7	)LQDQFLDO$FFRXQWDELOLW\ 0DQDJHPHQW		
7	,QWHUQDWRQDO-RXUQDORI 3XEOF$GPLQLWUDWRQ		
7	,QWHUQDWRQDO-RXUQDORI 3XEOF2SLQLRQ5HVHDUFK		
7	,QWHUQDWRQDO5HYLHZ RI $GPLQLWUDWLYH6FLHQFHV		
7	-RXUQDORI &KLQHVH* RYHUQDQFH		
7	-RXUQDORI &RPSDUDWLYH3RDF\ $QDO\VLV		
7	-RXUQDORI &RQWHPSRUDU\ &KLQD		
7	-RXUQDORI 3RDF\ 0RGHOLQJ		
7	-RXUQDORI 3XEOF3RDF\	;	
7	/RFDO*RYHUQPHQW6WXGLHV		
7	1RQSURILW0DQDJHPHQW /HDGHUVKLS		
7	3RDF\ 6FLHQFHV		
7	3RDF\ 6WXGLHV		
7	3RDF\ 6WXGLHV-RXUQDO	;	
7	3XEOF$GPLQLWUDWRQDQG' HYHORSPHQW		
7	3XEOF$GPLQLWUDWRQ4XDUWHUO		
7	3XEOF0RQH\ 0DQDJHPHQW		
7	3XEOF3HUIRUPDQFH 0DQDJHPHQW6HYLHZ		
7	3XEOF3RDF\ DQG$GPLQLWUDWRQ		
7	6RFLDO3RDF\ $GPLQLWUDWRQ		
7	9RXQWDV		

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7	-RXUQDORI ,QWHUQDWRQDO%XVLQHVV6WXGLHV		
7	-RXUQDORI : RUOG%XVLQHVV		
7	$VLD3DFLILF-RXUQDORI 0DQDJHPHQW		
7	$XVWUDOLDQ-RXUQDORI ,QWHUQDWRQDO$IIDLUV		

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7	(FRQRP\ DQG6RFLHW		
7	(XURSHDQ-RXUQDORI,QWHUQDWLRQDO5HODWLRQV		
7	)RUHLJQ$IIDLUV		
7	,QWHUQDWLRQDO$IIDLUV		
7	,QWHUQDWLRQDO%XVLQHVV5HYLHZ		
7	,QWHUQDWLRQDO6WXGLHV4XDUWHUO		
7	-RXUQDORI&RQIOLFW5HVROXWLRQ		
7	-RXUQDORI(XURSHDQ3XEOLF3ROLF\		
7	-RXUQDORI,QWHUQDWLRQDO DQDJHPHQW		
7	-RXUQDORI6RFLDO3ROLF\		
7	0 DQDJHPHQW/QWHUQDWLRQDO5HYLHZ		
7	5HYLHZ RI,QWHUQDWLRQDO3RLWLFDO(FRQRP\		
7	6RFLR(FRQRPLF5HYLHZ		
7	$IULFDQ$IIDLUV		
7	%XVLQHVVDQG3RLWLFV		
7	&DSLWDO DUNHW/ DZ -RXUQDO		
7	&KLQD-RXUQDO		
7	&KLQD4XDUWHUO		
7	&KLQHVH0 DQDJHPHQW6WXGLHV	;	
7	&RP SHWLWLRQDQG&KDQJH		
7	' HYHORSP HQWDQG&KDQJH	;	
7	(XURSH$VLD6WXGLHV		
7	-RXUQDORI&RPP RQ0 DUNHW6WXGLHV		
7	-RXUQDORI(XURSHDQ6RFLDO3RLF\		
7	-RXUQDORI,QWHUQDWLRQDO(FRQRP LF/ DZ		
7	-RXUQDORI: RUOG,QYHVWPHQW 7UDGH		
7	-RXUQDORI: RUOG7UDGH		
7	/ HJDO,VVXHVRI(FRQRP LF,QWHJUDWLRQ		
7	1HZ 3RLWLFDO(FRQRP\		
7	3XEOLF5HODWLRQV5HYLHZ		
7	5HYLHZ RI6RFLDO(FRQRP\		
7	6WXGLHVLQ&RP SDUDWLYH,QWHUQDWLRQO HYHORSP HQW		
7	7KLUG: RUOG4XDUWHUO		
7	9HQWXUH&DSLWDO		

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7	$P HULFDQ(FRQRP LF-RXUQDO0 DFUR-FRQRP LFV		
7	-RXUQDORI,QWHUQDWLRQDO(FRQRP LFV		
7	-RXUQDORI0 RQHWDU\ (FRQRP LFV		

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7	(FRQRP LF 3 ROLF\		
7	,0) (FRQRP LF 5 HYLHZ		
7	-RXUQDORI (FRQRP LF ' \ QDP LFV DQG &RQWURO		
7	0 DFURHFRQRP LF ' \ QDP LFV		
7	1 %(5 0 DFURHFRQRP LFV $ QQXDO		
7	2 [I RUG %XOOHWLQ RI (FRQRP LFV DQG 6 WDWLWWLFV		
7	5 HYLHZ RI (FRQRP LF ' \ QDP LFV		
7	5 HYLHZ RI , QWHUQDWLRQDO (FRQRP LFV		
7	$ SSOLHG (FRQRP LFV		
7	%(-RXUQDORI 0 DFURHFRQRP LFV		
7	%XOOHWLQ RI (FRQRP LF 5 HVHDUFK		
7	(FRQRP LF 0 RGHOLQJ		
7	(FRQRP LF 6\ VWHP V		
7	(P SLULFDO (FRQRP LFV		
7	-RXUQDORI (FRQRP LF 6 XUYH\ V		
7	-RXUQDORI 0 DFURHFRQRP LFV		
7	-RXUQDORI VKH-DSDQHVH DQG , QWHUQDWLRQDO (FRQRP LHV		
7	2 SHQ (FRQRP LHV 5 HYLHZ		
7	3 DFLILF (FRQRP LF 5 HYLHZ	;	
7	5 HYLHZ RI : RUOG (FRQRP LFV		
7	6 FRWWLVK -RXUQDORI 3 ROLWLFDO (FRQRP \		
7	6 WUXFWXUDO &KDQJH DQG (FRQRP LF ' \ QDP LFV	;	
7	: RUOG (FRQRP \		

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7	$ FFRXQWLQJ 2 UJDQL] DWLRQV DQG 6 RFLHWV		
7	$ FFRXQWLQJ 5 HYLHZ		
7	&RQWHP SRUDU\ $ FFRXQWLQJ 5 HVHDUFK		
7	-RXUQDORI $ FFRXQWLQJ DQG (FRQRP LFV		
7	-RXUQDORI $ FFRXQWLQJ 5 HVHDUFK		
7	5 HYLHZ RI $ FFRXQWLQJ 6 WXGLHV		
7	$ EDFXV		
7	$ FFRXQWLQJ DQG %XVLQHVV 5 HVHDUFK		
7	$ FFRXQWLQJ $ XGLWLQJ $ FFRXQWDELOLW -RXUQDO		

< 4Ý	U @C0&	, 661 (, 661	&1@-
7	$ FFRXQWQJ + RUL] RQV		
7	$ XGLWQJ		
7	%HKDYLRUDO5 HVHDUFK LQ$ FFRXQWQJ		
7	%UWWK $ FFRXQWQJ 5 HYLHZ		
7	&UWWFDO3HUVSHFWLYHVRQ$ FFRXQWQJ		
7	(XURSHDQ$ FFRXQWQJ 5 HYLHZ		
7	,QWHUQDWRQDO-RXUQDORI $ FFRXQWQJ		
7	-RXUQDORI $ FFRXQWQJ DQG3XEOF3ROF\		
7	-RXUQDORI $ FFRXQWQJ / LWHUDWXUH		
7	-RXUQDORI $ FFRXQWQJ $ XGLWQJ) LQDQFH	;	
7	-RXUQDORI %XVLQHVV) LQDQFH $ FFRXQWQJ	;	
7	-RXUQDORI ,QWHUQDWRQDO$ FFRXQWQJ 5 HVHDUFK		
7	-RXUQDORI ,QWHUQDWRQDO$ FFRXQWQJ $ XGLWQJ DQG 7D[DWRQ		
7	-RXUQDORI 0 DQDJHP HQW$ FFRXQWQJ 5 HVHDUFK		
7	-RXUQDORI VKH$ P HULFDQ7D[DWRQ$ VVRFLDWRQ		
7	0 DQDJHP HQW$ FFRXQWQJ 5 HVHDUFK		
7	$ FFRXQWQJ DQG) LQDQFH		
7	$ FFRXQWQJ DQG VKH3XEOF ,QWHUHVW		
7	$ FFRXQWQJ) RUXP		
7	$ FFRXQWQJ LQ(XURSH		
7	$ FFRXQWQJ 5 HVHDUFK -RXUQDO		
7	$ FFRXQWQJ (FRQRP LFV DQG/ DZ $ &RQYLYLXP		
7	$ GYDQFHVLQ$ FFRXQWQJ		
7	$ GYDQFHVLQ$ FFRXQWQJ %HKDYLRUDO5 HVHDUFK		
7	$ GYDQFHVLQ0 DQDJHP HQW$ FFRXQWQJ		
7	$ VLD3DFLILF -RXUQDORI $ FFRXQWQJ (FRQRP LFV		
7	$ XWWDODQ$ FFRXQWQJ 5 HYLHZ		
7	%UWWK 7D[5 HYLHZ		
7	&KLQD-RXUQDORI $ FFRXQWQJ 5 HVHDUFK		
7	&RUSRUDWH* RYHUQDQFH $ Q,QWHUQDWRQDO5 HYLHZ		
7	) RXQGDWRQVDQG7UHQGVŠ LQ$ FFRXQWQJ		
7	,QWHUQDWRQDO-RXUQDORI $ FFRXQWQJ ,QIRUP DWRQ 6\ VWHP V		
7	,QWHUQDWRQDO-RXUQDORI $ XGLWQJ		
7	,QWHUQDWRQDO-RXUQDORI 0 DQDJHULDODQG) LQDQFLDO $ FFRXQWQJ		
7	-RXUQDORI $ FFRXQWQJ 2 UJDQL] DWRQDO&KDQJH		
7	-RXUQDORI $ SSOLHG$ FFRXQWQJ 5 HVHDUFK		
7	-RXUQDORI &RQWHP SRUDU\ $ FFRXQWQJ (FRQRP LFV		
7	-RXUQDORI) RUHQVLF DQG,QYHVWLJDWLYH$ FFRXQWQJ		
7	-RXUQDORI ,QIRUP DWRQ6\ VWHP V		

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7	-RXUQDORI ,QWHUQDWLRQDO)LQDQFLDO DQDJHPHQW $FFRXQWLQJ		
7	-RXUQDORI 0 DQDJHPHQW&RQWURO		
7	4 XDUWHUO\5HVHDUFK LQ$FFRXQWLQJ 0 DQDJHPHQW		
7	5HVHDUFK LQ$FFRXQWLQJ 5HJXODWRU\		
7	6XVWDLQDELOLW\$FFRXQWLQJ 0 DQDJHPHQWDQG3ROLF\ -RXUQDO		

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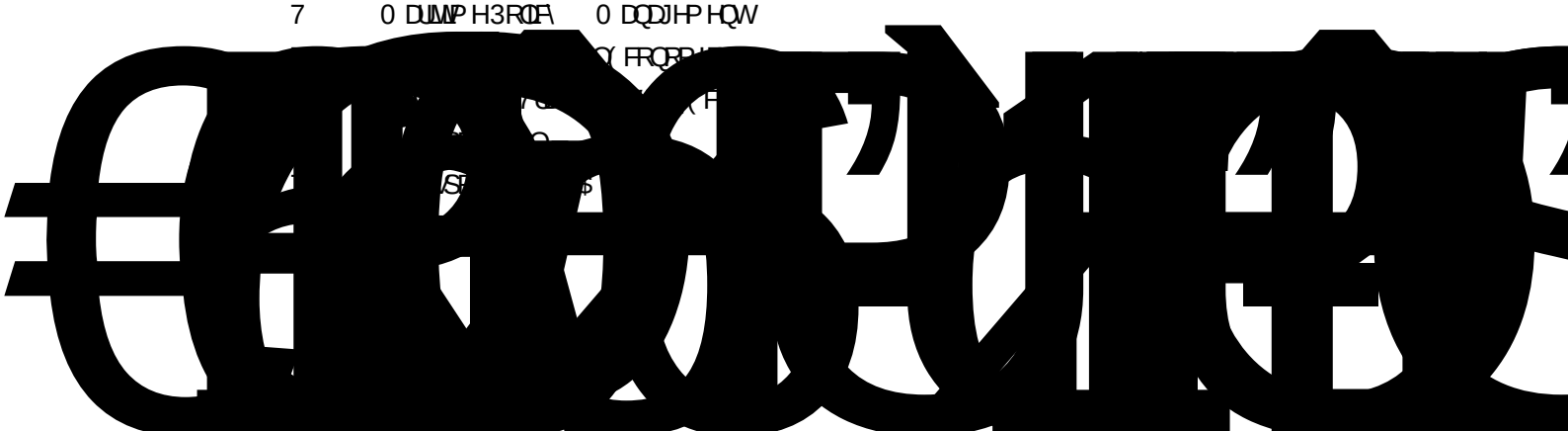
<4Ý	U @C0&	,661 (,661	&1@-
7	$QQDOVRI 6WUDWHJLF		
7	%LRPHWULND		
7	(FRQRPHWULF7KHRU\		
7	-RXUQDORI %XVLQHVV (FRQRPLF6WUDWHJLF		
7	-RXUQDORI (FRQRPHWULFV		
7	-RXUQDORI WKH$PHULFDQ6WDWLVWLFDO$VVRFLDWLRQ		
7	-RXUQDORI WKH5R\DO6WDWLVWLFDO6RFLHW\6HULHV %6WDWLVWLFDO0HWKRGRORJ\		
7	$QQDOVRI $SSOLHG6WDWLVWLFV		
7	%LRVWDWLVWLFV		
7	&RPSXWDWLRQDO6WDWLVWLFV ' DWD$QDO\VLV		
7	(FRQRPHWULF5HYLHZV		
7	(FRQRPHWULFV-RXUQDO		
7	-RXUQDORI $SSOLHG(FRQRPHWULFV		
7	-RXUQDORI &RPSXWDWLRQDODQG* UDSKLFDO6WDWLVWLFV		
7	-RXUQDORI 0 XOWLYDULDWH$QDO\VLV	;	
7	-RXUQDORI WKH5R\DO6WDWLVWLFDO6RFLHW\6HULHV $ 6WDWLVWLFVLQ6RFLHW\		
7	-RXUQDORI WKH5R\DO6WDWLVWLFDO6RFLHW\6HULHV & $SSOLHG6WDWLVWLFV		
7	-RXUQDORI 7LPH6HULHV$QDO\VLV		
7	6FDQGLQDYLDQ-RXUQDORI 6WDWLVWLFV		
7	6WDWLVWLFD6LQLFD		
7	6WDWLVWLFDO6FLHQFH		
7	$QQDOVRI WKH,QVWLWXWHRI 6WDWLVWLFDO DWKHP DWLFV		
7	$XVWUDOLDQ 1HZ =HDODQG-RXUQDORI 6WDWLVWLFV		
7	&DQDGLDQ-RXUQDORI 6WDWLVWLFV5HYXH&DQDGLHQQH ' H6WDWLVWLTXH	;	
7	(FRQRPHWULF-RXUQDORI 6WDWLVWLFV		
7	,QWHUQDWLRQDO6WDWLVWLFDO5HYLHZ		

<4Ý	U @C0&	, 661 (, 661	&1@-
7	[illegible]		
7	-RXUQDORI $SSOLHG6\VDWXWWFV		
7	-RXUQDORI 6\VDWXWWFDO3ODQQLQJ DQG,QIHUHQFH		
7	0 XOWYDULDWH%HKDYLRUDO5HVHDUFK		
7	6\VDWXWWFD1HHUODQGLFD		
7	6\VDWXWWFVDQG&RP SXWQJ	•,ϱ Ϛ Ϸ EMΛ©Ð	
7	6\VDWXWWFVLQ0 HGLFLQH		
7	6\WKFVXUDO(TXDWRQ0 RGHOQJ		
7	6\XGLHVLQ1 RQOQHDU' \QDP LFVDQG(FRQRP HWLFV		

<4Ý	U @C0&	, 661 (, 661	&1@-
7	7UDQVSRUWDWRQ5HVHDUFK3DUW$ 3ROF\ DQG3UDFWWFH		
7	7UDQVSRUWDWRQ5HVHDUFK3DUW% 0 HWKRGRORJLFDO		
7	7UDQVSRUWDWRQ6FLHQFH		
7	7UDQVSRUW3ROF\	;	
7	,(((7UDQVDFWRQVRQ,QWHOOJHQW7UDQVSRUWDWRQ 6\VWHPV		
7	-RXUQDORI 7UDQVSRUW' HRJUDSK\		
7	7UDQVSRUW5HYLHZV		
7	7UDQVSRUWDWRQ5HVHDUFK3DUW& (P HUJLQJ 7HFKQRORJLHV	;	
7	7UDQVSRUWDWRQ5HVHDUFK3DUW' 7UDQVSRUWDQG (QYLURQP HQW		
7	7UDQVSRUWDWRQ5HVHDUFK3DUW(/ RJLVWWFVDQG 7UDQVSRUWDWRQ5HYLHZ		
7	7UDQVSRUWDWRQ5HVHDUFK3DUW) 7UDIILF3\ FKRORJ\ DQG%HKDYLRXU		
7	(8 5 2 -RXUQDORQ7UDQVSRUWDWRQDQG/ RJLVWWFV		
7	,(((,QWHOOJHQW7UDQVSRUWDWRQ6\VWHPV0 DJD]LQH		
7	,(7 ,QWHOOJHQW7UDQVSRUW6\VWHPV	;	
7	-RXUQDORI $LU7UDQVSRUW0 DQDJHP HQW		
7	-RXUQDORI ,QWHOOJHQW7UDQVSRUWDWRQ6\VWHPV		
7	-RXUQDORI 7UDQVSRUW(FRQRP LFVDQG3ROF\		
7	0 DULWP H3ROF\ 0 DQDJHP HQW		



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7	(UJRQRPLFV		
7	*URXS' \QDPLFV7KHRU\UHVHDUFKDQGSUDFWLFH		
7	+XPDQ3HUIRUPDQFH		
7	,QWHUQDWLRQDO-RXUQDORI,QWHUFXOWXUDO5HODWLRQV		
7	-RXUQDORI&DUH\$VVHVVPHQW		
7	-RXUQDORI&URVV&XOWXUDO3V\FKRORJ\		
7	-RXUQDORI0DQDJHULDO3V\FKRORJ\		
7	3HUVRQDOLW\DQG,QGLYLGXDO'LIIHUHQFHV		
7	3V\FKRORJLFDO5HVHDUFK		
7	3V\FKRPHWULND		
7	4XDUWHUO\-RXUQDORI([SHULPHQWDO3V\FKRORJ\		
7	6PDOO*URXS5HVHDUFK		
7	6WUHVVDQG+HDOWK		

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7	(XURSHDQ-RXUQDORI,QRUP DWRQ6\VWHPV	;	
7	,QRUP DWRQ6\VWHPV5HVHDUFK		
7	-RXUQDORI0DQDJHPHQW/QRUP DWRQ6\VWHPV		
7	-RXUQDORI\WH$\VWRFDWRQIRU,QRUP DWRQ6\VWHPV		
7	0,64XDUWHUO\		
7	$&0 7UDQVDFWRQVRQ&RP SXWHU+XP DQ ,QWHUDFWRQ		
7	$&0 7UDQVDFWRQVRQ,QRUP DWRQ6\VWHPV		
7	$&0 7UDQVDFWRQVRQ. QRZOHGJH' LVFRYHU\ IURP ' DWD		
7	$&0 7UDQVDFWRQVRQ0 DQDJHPHQWQRUP DWRQ 6\VWHPV	;	
7	&RPP XQLFDWRQVRI\WH$&0		
7	&RPSXWHUVLQ+XP DQ%HKDYLRU		
7	' DWD%DVHIRU$GYDQFHVLQ,QRUP DWRQ6\VWHPV		
7	' HFLVRQ6XSSRUW6\VWHPV		
7	,(((7UDQVDFWRQVRQ. QRZOHGJHDQG' DWD (QJLQHHULQJ		
7	,(((7UDQVDFWRQVRQ6RIWZDUH(QJLQHHULQJ		
7	,QRUP DWRQ 0 DQDJHPHQW		
7	,QRUP DWRQDQG2UJDQL]DWRQ		
7	,QRUP DWRQDQG6RFLDO7HFKQRORJ\		
7	,QRUP DWRQ6FLHQFHV		
7	,QRUP DWRQ6RFLHW\		

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7 ,QIRUPDWLRQ6\VWHPV)UDQFKLVH

7 ,QIRUPDWLRQ6\VWHPV-RXUQDO

7 ,QIRUPDWLRQ7HFKQRORJ\ 3HRSOH

7 ,QWHUQDWLRQDO-RXUQDORI (OHFWURQLF&RPPHUFH

7 ,QWHUQDWLRQDO-RXUQDORI ,QIRUPDWLRQ0 DQDJHPHQW

7 ,QWHUQHW5HVHDUFK

7 -RXUQDORI ,QIRUPDWLRQ7HFKQRORJ\

7 -RXUQDORI . QRZOHGJH0 DQDJHPHQW

7 -RXUQDORI 6WDWLVWLF,QIRUPDWLRQ6\VWHPV

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7	/ ³ a 0 q		76
7	QSM6FLHQFHR\ ) RRG		
7	) RRG6FLHQFHDQG+ XP DQ: HQQHVV		
7	)22' %26&,(1&(		
7	)22' 48$/,7< $1' 6$)(7<		
7	)22' &+(0,675<		
7	75(1'6 ,1)22' 6&,(1&(7(&+12/2*<		
7	1 DWXUH6XVWDLQDELOLW\		
7	&20 35(+(16,9(5(9,(: 6 ,1)22' 6&,(1&($1')22' 6$)(7<		
7	) RRG+\ GUR[RQHOLGV	;	
7	&UDWHUDO5HVHUYH VLQ) RRG6FLHQFHDQG1 XWULWLRQ		
7	-2851$/ 2) $*5,&/785$/ $1')22' &+(0,675<		
7	$QQXDO5HYLHZ R\ ) RRG6FLHQFHDQG7HFKQRORJ\		
7	)22' 5(6($5&+ ,17(51$7,21$/		
7	$SSOLHGDQG(QYLURQP HQWDO LFURELRORJ\		
7	&XUUHQW2 SLQLRQLQ) RRG6FLHQFH		
7	$GYDQFHVLQ1 XWULWLRQ		
7	0 ($7 6&,(1&(		
7	)22' &21752/		
7	/: 7) RRG6FLHQFHDQG7HFKQRORJ\		
7	1 XWULHQWV		
7	-RXUQDORI ' DLU\ 6FLHQFH		

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7	0 RDHFXDU1 XWLOLWLHV)RRG5HVHDUFK		
7	)RRG0 LFURELRORJ\		
7	3267+$59(67 %¢2/2*< $1' 7(&+12/2*<		
7	• ³ 0	;	6
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7	,17(51$7,21$/ -2851$/ 2))22' 0,&52%2/2*<		
7	,1129$7,9( )22' 6&,(1&((0(5*,1* 7(&+12/2*,(6		
7	)RRG)XQFWLRQ	;	
7	*/2%$/)22' 6(&85,7< $*5,&8/785(32/,&< (&2120,&6 $1' (19,5210(17		
7	$QWLR[LGDQWV		
7	)RRG(QJLQHHULQJ5HYLHZV		
7	)RRG5HYLHZV,QWHUQDWLRQDO		
7	)RRG4XDOLW\DQG3UHIHUHQFH		
7	)22' 32/,&<		
7	-2851$/ 2))81&7,21$/)22' 6		
7	)22' 3$&.$*,1* $1' 6+(/)/,)(		
7	)RRGDQG%LRSURFHVV7HFKQRORJ\		
7	%LRVWUXFWXUHV(QJLQHHULQJ		
7	)RRG6HFXULW\		
7	-RXUQDO RI VWH $FDGHP\ RI 1XWULWLRQ DQG ' LHWHWLFV		
7	-RXUQDORI VWH6FLHQFHRI)RRGDQG$JULFXOWXUH		
7	)URQWLHUVLQ1XWULWLRQ	;	
7	7R[LQV		
7	)RRGDQG%LRSURGXFWV3URFHVVLQJ		
7	-2851$/ 2))22' &20326,7,21 $1' 1/<6,6		
7	-RXUQDORI)RRG6FLHQFH		
7	-RXUQDORI &HUHDO6FLHQFH		
7	,17(51$7,21$/ -2851$/ 2))22' 6&,(1&(6$1' 1875,7,21		
7	)HUPHQWDWLRQ		

<4Ý	U @C0&´ È C C < ~ D µ	, 661 (, 661	&1
7	$ QDO\WFDO0 HWKRGV		
7	3/$17)22' 6)25 +80$1 1875,7,21		
7	,QWHUQDWRQDO -RXUQDO RI)RRG 6FLHQFH 7HFKQRORJ\		
7	-RXUQDORI ,QVHFWVDV) RRGDQG) HHG		
7	%LRUHVRXUFHVDQG%LRSURFHVVLQJ		
7	)RRG $GGLWLYHV &RQWDPLQDQW 3DUW $ &+(0,675< 1/<6,6 &21752/ (;32685(5,6. $66(660(17		
7	&XUUHQW1 XWUWRQ5HSRUW		
7	&KHPLFDO6HQVHV		
7	$QQDOVRI $JULFXOWXUDO6FLHQFHV		
7	)RRG6\WKFWXUH1 HWKHUODQGV		
7	-RXUQDORI VKH ,QWHUQDWRQDO6RFLHW RI 6SRUW 1 XWUWRQ		
7	)RRGV		
7	)RRG$QDO\WFDO0 HWKRGV		
7	)RRG$GGLWLYHV &RQWDPLQDQW 3DUW%		
7	(XURSHDQ)RRG5HVHDUFK 7HFKQRORJ\		
7	/ ³ ³ •		76
7	ê '] œÖ0 0 q ' ö ³ 0 Q		1
7	ª 6 ³ •		76
7	/ ³ 8 %6		76
7	/ ³ ª 6 ¦ "		76
7	/ ³ $ 6] œ		76
7	/ ³ ª ^ 0 ï •		76
7	ª 6 æ) h ¿ 0 q		76
7	g m0 ª 6 o à		76
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7	+ Y N		76
7	a ª 0		76
7	ª 6] œ	;	76
7	/ ó N „ 0 N „ U		76
7	ª 6 0 Ÿ þ ³ •	;	76
7	-RXUQDORI ,QWHJUDWLYH$JULFXOWXUH		
7	)RRG 1 XWUWRQ5HVHDUFK		
7	)URQWHLVLQ6XWDLQDEOH)RRG6\ VWP V	;	
7	-RXUQDORI %LRHQJLQHHULQJ DQG%LRVFLHQFH		
7	()6$ -2851$/		
7	,QWHUQDWRQDO-RXUQDORI ' DLU\ 7HFKQRORJ\		
7	,17(51$7,21$/ ' $,5< -2851$/		
7	)RRGDQG(QHUJ\ 6HFXULW		

<4Ý	U @C0&´ È C C < ~ D µ	, 661 (, 661	&1
7	-RXUQDORI) RRG%LRFKHP LWWH		
7	-RXUQDO RI / RVV 3UHYHQWWRQ LQ VKH 3URFHVV ,QGXVWWLHV		
7	) RRGERUQH3DWKRJHQV DQG' LVHDVH		
7	) RRG%LRSK\ VLFV		
7	) RRG DQG(QYLURQP HQWDO9 LURORJ\		
7	%,27(&+12/2*< 352*5(66		
7	,QWHUQDWWRQDO-RXUQDORI) RRG3URSHLWWHV		
7	3K\ VRFKHP LFDO$ QDO\VLV		
7	-RXUQDORI 7H[VXUH6VXGLHV		
7	*0 &5236)22'		
7	) RRG DQG$ JULFXOWXUDO,P P XQRORJ\		
7	&KHP LFDO DQG %LRORJLFDO 7HFKQRORJLHV LQ $ JULFXOWXUH		
7	(XURSHDQ -RXUQDO RI / LSLG 6FLHQFH DQG 7HFKQRORJ\		
7	-RXUQDORI) RRG6FLHQFH DQG7HFKQRORJ\		
7	5HQHZ DEOH$ JULFXOWXUH DQG) RRG6\ VWHP V		
7	-RXUQDORI) RRG3URFHVV(QJLQHHULQJ		
7	$ XVWWDODQ-RXUQDORI * UDSH DQG: LQH5 HVHDUFK		
7	) ODYRXU DQG) UDJUDQFH-RXUQDO		
7	-RXUQDO RI) RRG 0 HDVXUHP HQW DQG &KDUDFWHUL]DWWRQ		
7	-RXUQDORI 6VRUHG3URGXFWV5 HVHDUFK	;	
7	&(5($/ &+(0 ,675<		
7	1-$6 : DJHQLQJHQ-RXUQDORI / LIH6FLHQFHV		
7	$ P HULFDQ-RXUQDORI (QRORJ\ DQG9 LWWFXOWXUH		
7	%LRVFLHQFH%LRWHFKQRORJ\ DQG%LRFKHP LWWH		
7	-RXUQDORI 6HQVRUV 6VXGLHV		
7	-2851$/ 2) 2&,17(51$7,21$/		
7	$ JURHFRORJ\ DQG6XVWDLQDEOH) RRG6\ VWHP V		
7	-RXUQDORI 0 HGLFLQDO) RRG	;	
7	) RRG7HFKQRORJ\ DQG%LRWHFKQRORJ\		
7	) RRG6FLHQFH 1 XWWWWRQ		
7	-RXUQDORI (VVHQWWDO2 LO5 HVHDUFK		
7	: RUOG0 \ FRVW[LQ-RXUQDO		
7	-RXUQDORI ' DLLV 5 HVHDUFK		
7	%ULWWK) RRG-RXUQDO	;	
7	) RRG6FLHQFH DQG%LRWHFKQRORJ\		
7	-RXUQDORI) RRG4 XDOWV		
7	-RXUQDORI VKH$ P HULFDQ2 LO&KHP LWW 6RFLHWV		
7	-RXUQDORI) RRG3URFHVVLQJ DQG3UHVHUYDWWRQ		

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7	3DFNDJLQJ 7HFKQRORJ\ DQG6FLHQFH		
7	) RRGDQG1 XWULWLRQ%XOOHWLQ		
7	%UMVK 3RXOWU\ 6FLHQFH		
7	,17(51$7,21$/ -2851$/ 2) * $6752120 < $1')22' 6&,(1&(	;	
7	$JULFXOWXUH		
7	-RXUQDO RI (QYLURQPHQWDO6FLHQFH DQG +HDOWK 3DUW% 3HVWLFLGHV) RRG &RQWDPLQDQWV DQG $JULFXOWXUDO DWHV		
7	) RRG%LRWHFKQRORJ\		
7	-RXUQDO RI) RRG6DIHWV		
7	3RODK -RXUQDO RI) RRGDQG1 XWULWLRQ6FLHQFHV		
7	0 ,&52%$/ 5,6. 1/<6,6		
7	-RXUQDO RI 7KH,QWHUQDWLRQ %UHZLQJ		
7	) RRG6FLHQFHDQG7HFKQRORJ\		
7	$SSOHG%LRORJLFDO&KHPLVWU		
7	-RXUQDO RI : LQH(FRQRPLFV		
7	-RXUQDO RI VWH $PHULFDQ 6RFLHWV RI %UHZLQJ &KHPLVWV		
7	-RXUQDO RI $TXDW) RRG3URGXFWV7HFKQRORJ\		
7	-RXUQDO RI ,QFOXVLRQ3KHQRPHQDDQG0 DFURF\ FOH &KHPLVWU		
7	&RJHQV\RRG $JULFXOWXUH		

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9' ½U @　0				
7	$&0 7UDQVDFWRQVRQ &RPSXWHU+XPDQ ,QWHUDFWRQ			Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „
7	$&0 7UDQVDFWRQVRQ * UDSKLFV			Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „
7	$UWLFLDO,QWHOOLJHQFH			Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „
7	,(((7UDQVDFWRQVRQ ,PDJH3URFHVVLQJ			Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „
7	,(((7UDQVDFWRQVRQ ,QIRUP DWLRQ7KHRU			Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „
7	,(((7UDQVDFWRQVRQ 3DWWHUQ$QDO\VLVDQG 0 DFKLQH,QWHOOLJHQFH			Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „
7	,(((7UDQVDFWRQVRQ 6LJQDO8URFHVVLQJ			Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „
7	,(((7UDQVDFWRQVRQ 9LVXDO[DWLRQDQG &RPSXWHU* UDSKLFV			Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹

				0 o v Ê „
7	,QWHUQDWLRQDO-RXUQDORI &RPSXWHU9LVLRQ			Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „
7	-RXUQDORI 0 DFKLQH / HDUQLQJ 5HVHDUFK			Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „
7	3DWWHUQ5HFRJQLWLRQ			Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „
7	9LVXDO,QWHOOLJHQFH		73	Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „
7	,(((7UDQVDFWLRQVRQ 0 HGLFDO,P DJLQJ			“ ^ ¤ 0 õ ¾‰ 8
7	0 HGLFDO,P DJH$ QDO\VLV			“ ^ ¤ 0 õ ¾‰ 8
7	1 HXURLP DJH			“ ^ ¤ 0 õ ¾‰ 8
7	,(((7UDQVDFWLRQVRQ * HRVFLHQFHDQG5HP RWH 6HQVLQJ			Š + ³ 0 0 • ì
7	,6356 -RXUQDORI 3KRWRJUDP P HWU DQG 5HP RWH6HQVLQJ			Š + ³ 0 0 • ì
7	5HP RWH6HQVLQJ RI (QYLURQP HQW			Š + ³ 0 0 • ì
7	$GYDQFHVLQ2 SWLFV DQG 3KRWRQLFV			ð o Ž +
7	/ DVHU 3KRWRQLFV 5HYLHZV			ð o Ž +
7	/ LJKW6FLHQFH $SSOLFDWLRQV		2	ð o Ž +
7	2 SWLFD			ð o Ž +
7	2 SWLFV([SUHVV			ð o Ž +
7	3K\VLFV5HYLHZ / HWWHUV			ð o Ž +
7	&$$, 7UDQVDFWLRQVRQ ,QWHOOLJHQFH7HFKQRORJ\			Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „

7	&RP SXWDWRQDO9LVXDO 0HGLD			Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „
7	&RP SXWHU$LGHG' HVLJQ			Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „
7	&RP SXWHU* UDSKLFV) RUXP			Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „
7	&RP SXWHU9LVRQDQG ,P DJH8QGHUVWDQGLQJ			Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „
7	) RXQGDWRQVDQG7UHQGVLQ &RP SXWHU* UDSKLFVDQG 9LVRQ			Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „
7	,((($&0 7UDQVDFWRQV RQ$XGLR 6SHHFK DQG / DQJXDJH3URFHVVLQJ			Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „
7	,(((&$$ -RXUQDORI $XWRP DWHD6LQFD		73	Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „
7	,(((&RP SXWHU* UDSKLFV DQG$SSOLFDWRQ			Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „
7	,(((-RXUQDORI 6HOHFWHG 7RSLFVLQ6LJQDO 3URFHVVLQJ			Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „
7	,(((6LJQDO3URFHVVLQJ 0 DJD]LQH	;		Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „
7	,(((7UDQVDFWRQVRQ $IIHFWLYH&RP SXWLQJ			Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „

7	,(((7UDQVDFWLRQVRQ &LUFXLWVDQG6\VWHPVIRU 9LGHR7HFKQRORJ\			Í¾ðo‰8c™ 8oÍ¾‰80 Íù0cf´-¹ 0ovÊ„
7	,(((7UDQVDFWLRQVRQ &RPPXQLFDWLRQV			Í¾ðo‰8c™ 8oÍ¾‰80 Íù0cf´-¹ 0ovÊ„
7	,(((7UDQVDFWLRQVRQ &RPSXWDWLRQDO,PDJLQJ			Í¾ðo‰8c™ 8oÍ¾‰80 Íù0cf´-¹ 0ovÊ„
7	,(((7UDQVDFWLRQVRQ +XPDQ0DFKLQH6\VWHPV			Í¾ðo‰8c™ 8oÍ¾‰80 Íù0cf´-¹ 0ovÊ„
7	,(((7UDQVDFWLRQVRQ ,QGXVWULDO,QIRUPDWLFV			Í¾ðo‰8c™ 8oÍ¾‰80 Íù0cf´-¹ 0ovÊ„
7	,(((7UDQVDFWLRQVRQ ,QIRUPDWLRQ)RUHQVLFVDQG 6HFXULW\			Í¾ðo‰8c™ 8oÍ¾‰80 Íù0cf´-¹ 0ovÊ„
7	,(((7UDQVDFWLRQVRQ ,QWHOOLJHQW7UDQVSRUWDWLRQ 6\VWHPV			Í¾ðo‰8c™ 8oÍ¾‰80 Íù0cf´-¹ 0ovÊ„
7	,(((7UDQVDFWLRQVRQ 0XOWLPHGLD			Í¾ðo‰8c™ 8oÍ¾‰80 Íù0cf´-¹ 0ovÊ„
7	,(((7UDQVDFWLRQVRQ 1HXUDO1HWZRUNVDQG /HDUQLQJ6\VWHPV	;		Í¾ðo‰8c™ 8oÍ¾‰80 Íù0cf´-¹ 0ovÊ„
7	,(((7UDQVDFWLRQVRQ 6LJQDOSURFHVVLQJ 3URFHVVLQJRYHU1HWZRUNV	;		Í¾ðo‰8c™ 8oÍ¾‰80 Íù0cf´-¹ 0ovÊ„
7	,(((7UDQVDFWLRQVRQ 6\VWHPV0DQ &\EHUQHWLFV6\VWHPV			Í¾ðo‰8c™ 8oÍ¾‰80 Íù0cf´-¹ 0ovÊ„

7	,QWHUQDWLRQDO-RXUQDORI +XPDQ&RPSXWHU ,QWHUDFWLRQ			Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „
7	-RXUQDORI &XOWXUDO +HULWDJH			Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „
7	0 DFKLQH,QWHOOLJHQFH 5HVHDUFK	;	73	Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „
7	0 DFKLQH/ HDUQLQJ			Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „
7	1 HXUDO1 HWZRUNV			Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „
7	6,$0 -RXUQDORQ,PDJLQJ 6FLHQFHV			Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „
7	6LJQDO3URFHVVLQJ			Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „
7	9LWXDO5HDOWV			Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „
7	9LWXDO5HDOWV ,QWHOOLJHQW+DUGZDUH		73	Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „
7	9LVXDO&RPSXWLQJ IRU ,QGXVWU %LRPHGLFLQH DQG $UW	;	73	Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „
7	$QQDOVRI %LRPHGLFDO (QJLQHHULQJ			“ ^ ¤ 0 õ ¾‰ 8
7	%LRLQIRUPDWLFV			“ ^ ¤ 0 õ ¾‰ 8

7	%UHLQJVLQ%LRLQIRUPDWLFV			“ ^ ¤ 0 õ ¾ ‰ 8
7	+XPDQ%UDLQ0 DSSLQJ			“ ^ ¤ 0 õ ¾ ‰ 8
7	,((($&0 7UDQVDFWLRQV RQ&RPSXWDWLRQDO%LRORJ\ DQG%LRLQIRUPDWLFV			“ ^ ¤ 0 õ ¾ ‰ 8
7	,(((-RXUQDORI %LRPHGLFDODQG+HDOWK ,QIRUPDWLFV			“ ^ ¤ 0 õ ¾ ‰ 8
7	,(((7UDQVDFWLRQVRQ %LRPHGLFDO(QJLQHHULQJ			“ ^ ¤ 0 õ ¾ ‰ 8
7	,(((7UDQVDFWLRQVRQ (PHUJLQJ 7RSLFVLQ &RPSXWDWLRQDO,QWHOOLJHQFH	;		“ ^ ¤ 0 õ ¾ ‰ 8
7	,(((7UDQVDFWLRQVRQ 1HXUDO6\VWHPV VDQG 5HKDELOLWDWLRQ(QJLQHHULQJ			“ ^ ¤ 0 õ ¾ ‰ 8
7	,(((7UDQVDFWLRQVRQ 1XFOHDU6FLHQFH			“ ^ ¤ 0 õ ¾ ‰ 8
7	,(((7UDQVDFWLRQVRQ 8OWUDVRQLFV)HUURHOHFWULFV DQG)UHTXHQF\ &RQWURO			“ ^ ¤ 0 õ ¾ ‰ 8
7	-RXUQDORI 1HXUDO (QJLQHHULQJ			“ ^ ¤ 0 õ ¾ ‰ 8
7	0 DJQHWF5HVRQDQFH ,P DJLQJ	;		“ ^ ¤ 0 õ ¾ ‰ 8
7	0 DJQHWF5HVRQDQFHLQ 0 HGLFLQH			“ ^ ¤ 0 õ ¾ ‰ 8
7	1 0 5 LQ%LRPHGLFLQH			“ ^ ¤ 0 õ ¾ ‰ 8
7	,(((* HRVFLHQFHDQG 5HPRWH6HQVLQJ / HWWHUV	;		Š + ³ 0 0 • ì
7	,(((* HRVFLHQFHDQG 5HPRWH6HQVLQJ 0 DJD]LQH			Š + ³ 0 0 • ì
7	,(((-RXUQDORI 6HOHFWHG 7RSLFVLQ$SSOLHG(DUWK 2EVHUYDWLRQVDQG5HPRWH 6HQVLQJ			Š + ³ 0 0 • ì
7	,QWHUQDWLRQDO-RXUQDORI $SSOLHG(DUWK2EVHUYDWLRQ DQG* HRLQIRUPDWLRQ			Š + ³ 0 0 • ì
7	,QWHUQDWLRQDO-RXUQDORI 5HPRWH6HQVLQJ			Š + ³ 0 0 • ì

7	,6356,QWHUQDWLRQDO -RXUQDORI*HR,QIRUPDWLRQ			Š+³ 0 0 • ì
7	6&,(1&(&+,1$(DUWK 6FLHQFHV		3	Š+³ 0 0 • ì
7	$GYDQFHG2SWLFDO 0DWHULDOV			ð o Ž +
7	$GYDQFHG3KRWRQLFV			ð o Ž +
7	$3/3KRWRQLFV			ð o Ž +
7	'LVSOD\V			ð o Ž +
7	2SWLFVDQG/DVHU 7HFKQRORJ\			ð o Ž +
7	2SWLFVDQG/DVHUVLQ (QJLQHHULQJ			ð o Ž +
7	2SWLFV/HWWHUV			ð o Ž +
7	2SWR(OHFWURQLF$GYDQFHV		71	ð o Ž +
7	3KRWRQLFV5HVHDUFK			ð o Ž +
7	$&0-RXUQDORQ &RPSXWDWLRQDO&RJQLWLYH +HXULVWLFV			Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „
7	$&07UDQVDFWLRQVRQ 0 XOWLPHGLD&RPSXWLQJ &RPPXQLFDWLRQVDQG $SSOLFDWLRQV			Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „
7	&KLQHVH-RXUQDORI (OHFWURQLFV		71	Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „
7	&RPSXWHU$QLPDWLRQDQG 9LUWXDO5HDOLW\	;		Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „
7	&RPSXWHUV(OHFWULFDO (QJLQHHULQJ			Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „
7	&RPSXWHUV*UDSKLFV			Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „
7	'LJLWDO6LJQDO3URFHVVLQJ			Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „

7	(QJLQHHULQJ ZLWK &RP SXWHUV			Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „
7	(85$6,3 -RXUQDORQ ,P DJHDQG9LGHR 3URFHVVLQJ			Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „
7	) RXQGDWRQVDQG7UHQGVLQ 6LJQDO3URFHVVLQJ			Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „
7	) URQWLHUVRI &RP SXWHU 6FLHQFH		73	Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „
7	* UDSKLFDO RGHO			Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „
7	,(((0 XOWP HGLD	;		Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „
7	,(((6LJQDO3URFHVVLQJ / HWWHUV			Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „
7	,(((7UDQVDFWLRQV RQ %URDGFDVWLQJ			Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „
7	,(7 ,P DJH3URFHVVLQJ			Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „
7	,P DJHDQG9LVLRQ &RP SXWLQJ			Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „
7	,QIRUP DWLRQ9LVXDOL]DWLRQ			Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „

7	,QVWUXFWLRQDO-RXUQDORQ ' RFXPHQW\$QDO\VLVDQG 5HFRJQLWLRQ			Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „
7	-RXUQDORI (OHFWURQLF ,PDJLQJ			Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „
7	-RXUQDORI VWH2 SWLFDO 6RFLHWRI \$PHULFD \$ 2 SWLFV,PDJH6FLHQFH DQG9 LVLRQ			Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „
7	-RXUQDORI 9LVXDO &RP P XQLFDWLRQDQG,P DJH 5HSUHVHQWDWLRQ			Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „
7	-RXUQDORI 9LVXDO[DQLPDWLRQ			Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „
7	0 DFKLQH9 LVLRQDQG \$SSOLFDWLRQV			Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „
7	0 XOWLPHGLD6\VWHP V DQG6LJQDO3URFHVVLQJ			Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „
7	0 XOWLPHGLD6\VWHP V			Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „
7	0 XOWLPHGLD7RROVDQG \$SSOLFDWLRQV			Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „
7	1HXUDO&RP SXWDWLRQ			Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „
7	1HXUDO&RP SXWLQJ \$SSOLFDWLRQ			Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „

7	2 SWFDO(QJLQHHULQJ			Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „
7	3DWKRORJ5HFRJQLWRQ/ HWWHUV			Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „
7	6LJQDO,P DJHDQG9 LGHR 3URFHVVLQJ			Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „
7	6LJQDO8URFHVVLQJ ,P DJH &RP P XQLFDWRQ			Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „
7	7KH9 LVXDO&RP SXWHU			Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „
7	9 LVXDQ,QIRUP DWLFV			Í ¾ð o ‰8 c™ 8 o Í ¾‰8 0 Í ù 0 cf ´ - ¹ 0 o v Ê „
7	$ UWLFLDO,QWHOOLJHQFHIlQ 0 HGLFLQH			“ ^ ¤ 0 õ ¾‰ 8
7	%LRP HGLFDO(QJLQHHULQJ 2 QQQH	;		“ ^ ¤ 0 õ ¾‰ 8
7	%LRP HGLFDO6LJQDO 3URFHVVLQJ DQG&RQWURO			“ ^ ¤ 0 õ ¾‰ 8
7	%0 & %LRLQIRP DWLFV			“ ^ ¤ 0 õ ¾‰ 8
7	%0 & 0 HGLFDO,P DJLQJ			“ ^ ¤ 0 õ ¾‰ 8
7	&RP SXWHU0 HWKRGV DQG 3URJUDP VlQ%LRP HGLFLQH			“ ^ ¤ 0 õ ¾‰ 8
7	&RP SXWHUM HG0 HGLFDO ,P DJLQJ DQG* UDSKLFV			“ ^ ¤ 0 õ ¾‰ 8
7	&RP SXWHUVlQ%LRORJ\ DQG 0 HGLFLQH			“ ^ ¤ 0 õ ¾‰ 8
7	,QWHUQDWLRQDO-RXUQDORI ' DWD0 LQLQJ DQG %LRLQIRUP DWLFV			“ ^ ¤ 0 õ ¾‰ 8
7	-RXUQDORI %LRP HGLFDO			“ ^ ¤ 0 õ ¾‰

	6HP DQWFV			8
7	-RXUQDORI 0 HGLFDODQG %LRORJLFDO(QJLQHHULQJ			“ ^ ¤ 0 õ ¾‰ 8
7	0 HGLFDO(QJLQHHULQJ 3K\VLFV			“ ^ ¤ 0 õ ¾‰ 8
7	1 XFOHDU0 HGLFLQHDQG %LRORJ\			“ ^ ¤ 0 õ ¾‰ 8
7	&KLQHVH* HRJUDSKLFDO 6FLHQFH		3	Š + ³ 0 0 • ì
7	* HRGHV\ DQG* HRG\QDPLFV		3	Š + ³ 0 0 • ì
7	* HR\SDWLDO,QIRUP DWLRQ 6FLHQFH		3	Š + ³ 0 0 • ì
7	*,6FLHQFH 5HP RWH 6HQVLQJ			Š + ³ 0 0 • ì
7	,QWHUQDWLRQDO-RXUQDORI ' LJLWDO(DUWK			Š + ³ 0 0 • ì
7	-RXUQDORI $SSOLHG5HP RWH 6HQVLQJ			Š + ³ 0 0 • ì
7	-RXUQDORI (DUWK6FLHQFH	;	3	Š + ³ 0 0 • ì
7	3KRWRJUDPP HWULF (QJLQHHULQJ DQG5HP RWH 6HQVLQJ			Š + ³ 0 0 • ì
7	5HP RWH6HQVLQJ			Š + ³ 0 0 • ì
7	$SSOLHG2 SWLFV	;		ð o Ž +
7	&KLQHVH2 SWLFV/ HWWHUV		2	ð o Ž +
7	) URQWLHUV RI 2 SWRHOHFWURQLFV		71	ð o Ž +
7	,(((7UDQVDFWLRQV RQ 7HUDKHUW] 6FLHQFH DQG 7HFKQRORJ\	;		ð o Ž +
7	-RXUQDORI ,QIRUP DWLRQ ' LVSOD\			ð o Ž +
7	-RXUQDORI VKH6RFLHWLHV IRU ,QIRUP DWLRQ' LVSOD\			ð o Ž +
7	2 SWFDO DWHULDOV			ð o Ž +
7	2 SWFV&RP P XQLFDWLRQV			ð o Ž +
7	2 SWRHOHFWURQLFV/ HWWHUV		71	ð o Ž +
7	3KRWRQLFRXWFV			ð o Ž +
7	6SHFWURVFRS\			ð o Ž +
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7	(J\ SWDQ-RXUQDORI 3HWURDXP			˜ æ
7	62 &$ 5 3URFHHGLQJV			˜ æ
7	1 DWXUDO* DV,QGXVWU %			˜ æ
7	: RUOG2 LO			˜ æ
7	6FLHQFH DQG 7HFKQRORJLHV 2 LO DQG 2 LO 3URGXFWV3LSHOQH7UDQVSRUWDWRQ			˜ æ
7	' HYHORSP HQW,Q3HWURDXP 6FLHQFH			˜ æ

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, (((- RXUQDO RI (PHUJLQJ DQG 6HOHFWHG 7RSLFV LQ 3RZHU (OHFWURQLFV			ç 3	7
, (((7UDQVDFWLRQV RQ , QWHOOLJHQW 7UDQVSRUWDWLRQ 6\ VWHPV	4R'iCP& Ð			

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	$ &0 7UDQVDFWRQVRQ* UDSKLFV			7
	,(((7UDQVDFWRQVRQ9 LVXDOL]DWRQ DQG &RPSXWHU* UDSKLFV			7
	&RPSXWDWRQDO9 LVXDOO HGLD		73	7
	9 LVXDO&RPSXWQJ IRU,QGXVWU %LRPHGLFLQH DQG$ UW	;	73	7
	Í 0 0 q	;	7	7
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	,(((7UDQVDFWRQRQ$ XWRP DWRQ6FLHQFH DQG(QJLQHHULQJ			7
	&RPSXWU$ LGHG' HVLJQ			7
	™8 o , N %• , Ä	O	73	7
	,(((7UDQVDFWRQVRQ,P DJH3URFHVVLQJ			7
	,(((7UDQVDFWRQVRQ0 HGLFDO,P DJLQJ			7
	,(((7UDQVDFWRQVRQ3DWWHUQ $QDO VLV DQG0 DFKLQH,QWHOOLJHQFH			7
	&RPSXWHU]HG0 HGLFDO,P DJLQJ DQG * UDSKLFV			7
	$ XWRP DWRQLQ&RQWUROKWRQ			7
	9 LUWXDO5 HDOLW			7
	&RPSXWU* UDSKLFV) RUXP			7
	7KH9 LVXDO&RPSXWU			7
	&RPSXWHUV * UDSKLFV			7
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	* UDSKLFDO RGHV			7
	-RXUQDOR 9 LVXDO&RP P XQLFDWRQ DQG ,P DJH5 HSURGXFWLRQ			7
	,(((&RPSXWU* UDSKLFVDQG$ SSOLFDWRQV			7
	9 LVXDO,QRUP DWLFV	;		7
	9 LUWXDO5 HDOLW ,QWHOOLJHQW DUGZ DUH		73	7
	&RPSXWU$ QLP DWRQ DQG9 LUWXDO RUOGV			7
	-RXUQDOR &RPSXWDWRQDO HVLJQ DQG (QJLQHHULQJ			7
	-RXUQDOR 0 DQXI DFWXULQJ 6FLHQFH DQG			7

	(QJLQHHULQJ			
	5 DSLG 3URWRW\SLQJ - RXUQDO			7
	&RP SXWHU $LGHG * HRP HWULF ' HVLJQ			7
	, Ä ¿ ç 0 q	;	9	7
	& Ÿ %•		73	7
	6LJQDO 3URFHVVLQJ			7
	- RXUQDO RI 0 DJQHWLF 5 HVRQDQFH , P DJLQJ			7
	&RP SXWHU 9 LVLRQ DQG , P DJH 8 QGHUVWDQGLQJ			7
	6LJQDO 3URFHVVLQJ , P DJH &RP P XQLFDWLRQ			7
	0 DJQHWLF 5 HVRQDQFH ,Q0 HGLFLQH			7
	&RP SXWHU $LGHG &LYLODQG , QIUDVWUFWXUH (QJLQHHULQJ			7
	Ò• Ù]] Q ð o • ì		78	7
	- RXUQDO RI &RP SXWLQJ LQ &LYLO (QJLQHHULQJ			7
	$ &0 - RXUQDO RQ &RP SXWLQJ DQG &XOWXUDO + HULWDJH			7
	- RXUQDO RI 9 LVXDO] DWLRQ			7
	, QIRUP DWLRQ 9 LVXDO] DWLRQ			7
	' \ QDP LF * DP HV DQG $ SSOLFDWLRQV			7
	™8 o] Q 0 ³ 0	;	73	7
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	, QWHUQDWLRQDO - RXUQDO RI , P DJH DQG * UDSKLFV			7
	7 KH - RXUQDO RI &RP SXWHU * UDSKLFV 7 HFKQLTXHV			7
	, QWHUQDWLRQDO - RXUQDO RI &RP SXWHU * UDSKLFV $ QLP DWLRQ			7
	- RXUQDO RI * UDSKLFV (QJLQHHULQJ DQG ' HVLJQ			7
	- RXUQDO RI , P DJH DQG * UDSKLFV 8 QLWG . LQJGRP			7
	0 DFKLQH * UDSKLFV 9 LVLRQ	;		7
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	o à • ™0 %•] Q	;	7+	7
	' LVFUHWH &RP SXWDWLRQDO * HRP HWU			7
	&RP SXWDWLRQDO * HRP HWU 7 KHRU DQG $ SSOLFDWLRQV			7
	&RP SXWHU $LGHG ' HVLJQ DQG $ SSOLFDWLRQV			7
	' LJLWDO 7 Z LQ			7
	, QWHUQDWLRQDO - RXUQDO RI &RP SXWDWLRQDO * HRP HWU $ SSOLFDWLRQV			7
	, P DJH DQG 9 LVLRQ &RP SXWLQJ			7
	- RXUQDO RI 5 HDO 7 LP H , P DJH 3URFHVVLQJ			7
	, (7 , P DJH 3URFHVVLQJ			7
	f ´ - ¹ 0] & Ÿ		73	7

	-RXUQDORI 0 DWHPDWLFDO,PDJLQJ DQG 9LVLRQ			7
	$&0 7UDQVDFWLRQV RQ$SSOLHG3HUFHSWLRQ			7
	6,$0 -RXUQDO RQ,PDJLQJ 6FLHQFHV			7
	&RPSXWHU0HWKRGV/LQ %LRPHFKDQLFVDQG%LRPHGLFDO (QJLQHHULQJ ,PDJLQJ 9LVXDOL]DWLRQ			7
	-RXUQDORI &LYLO(QJLQHHULQJ DQG 0 DQDJHPHQW			7
	)URQWLHUVRI (QJLQHHULQJ0 DQDJHPHQW			7
	-RXUQDORI ,QRUP DWLRQ7HFKQRORJ\ LQ &RQVWUXFWLRQ			7
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7	,(((7UDQVDFWRQVRQ&RQWUROS\WHPV7HFKQRORJ\		
7	,(((7UDQVDFWRQVRQ,QGXVWULDO(OHFWURQLFV		
7	,(((7UDQVDFWRQVRQ,QGXVWULDO,QIRUPDWFV		
7	,(((7UDQVDFWRQVRQ5RERWFV		
7	,(((&$$-RXUQDORI$XWPDWFD6LQLFD		73
7	H 0 Å %0 q		73
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7	' HFLVLRQ6XSSRUW6\WHPV		
7	,(((&RQWUROS\WHPV0DJDJLQH	;	
7	,(((5RERWFVDQG$XWPDWRQ/HWWHUV		
7	,(((7UDQVDFWRQVRQ$XWPDWRQ6FLHQFHDQG(QJLQHHULQJ		
7	,(((7UDQVDFWRQVRQ&RPSXWDWRQDO6RFLDO6\WHPV	;	
7	,(((7UDQVDFWRQVRQ&RQWURO1HWZRUN6\WHPV		
7	6FLHQFH5RERWFV		
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7	,(((7UDQVDFWRQVRQ&RJQLWLYH DQG' HYHORSPHQWDO6\WHPV		
7	,QWHUQDWRQDO-RXUQDORI)X]]\6\WHPV		

7	,QWHUQDWLRQDO RXUQDO RI 6\VWHP V6FLHQFH		
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	7	$ &0 7UDQVDFWLRQV RQ,QRUP DWLRQ6\VWHPV		
	7	$ &6 3KRWRQLFV		
	7	$ GYDQFHG(OHFWURQLF0 DWHULDOV		;
	7	$ 3/ 3KRWRQLFV		
	7	&KLQHVH-RXUQDORI (OHFWURQLFV (• 0 q　ç 3	71	
	7	' LJLWDO&RPPXQLFDWLRQV DQG1 HWZRUNV ô “ ¹ ð 0　î　ç 3	71	
	7	,((((OHFWURQ' HYLFH/ HWWHUV		
	7	,(((,QWHUQDWLRQDO 7KLQJV-RXUQDO		
	7	,(((-RXUQDORI 6RDG 6\VWHPV&LUFXLWV		
	7	,(((-RXUQDORQ6HQVRUV$ UHDV,Q&RPPXQLFDWLRQV		
	7	,(((7UDQVDFWLRQV RQ$ HURVSDFH HDQG (OHFWURQLF6\VWHPV		
	7	,(((7UDQVDFWLRQV RQ$ QWHQQDV DQG3URSDJDWLRQ		;
	7	,(((7UDQVDFWLRQV RQ%LRP HGLFDO&LUFXLWV DQG6\VWHPV		
	7	,(((7UDQVDFWLRQV RQ%LRP HGLFDO(QJLQHHULQJ		
	7	,(((7UDQVDFWLRQV RQ&LUFXLWV DQG6\VWHPV, 5HJXODU 3DSHUV		
	7	,(((7UDQVDFWLRQV RQ&RPPXQLFDWLRQV		

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	7	,(((7UDQVDFWRQVRQ' HSHQGDEOHDQG6HFXUH&RP SXWQJ		
	7	,(((7UDQVDFWRQVRQ(OHFWRP DJQHWF&RP SDWELOW		
	7	,(((7UDQVDFWRQVRQ(OHFWRQ' HYLFHV		
	7	,(((7UDQVDFWRQVRQ* HRVFLHQFHDQG5HP RWH6HQVLQJ		
	7	,(((7UDQVDFWRQVRQ,P DJH3URFHWLQJ		
	7	,(((7UDQVDFWRQVRQ,QIRUP DWRQ) RUHQVLFVDQG6HFXUW		
	7	,(((7UDQVDFWRQVRQ,QIRUP DWRQ7KHRU		
	7	,(((7UDQVDFWRQVRQ,QWUKP HQWDWRQDQG0 HDVXUHP HQW		
	7	,(((7UDQVDFWRQVRQ0 LFURZ DYH7KHRU DQG7HFKQLTXHV		
	7	,(((7UDQVDFWRQVRQ0 RELOH&RP SXWQJ		
	7	,(((7UDQVDFWRQVRQ0 XOWP HGLD		
	7	,(((7UDQVDFWRQVRQ3RZ HU(OHFWRQLFV		
	7	,(((7UDQVDFWRQVRQ6LJQDO3URFHWLQJ		;
	7	,(((7UDQVDFWRQVRQ9 HKLFXODU7HFKQRORJ\		
	7	,(((7UDQVDFWRQVRQ: LUHOHW&RP P XQLFDWRQV		
	7	,((($&0 7UDQVDFWRQVRQ1 HWZ RUNLQJ		
	7	-RXUQDORI &U SWRORJ\		
	7	-RXUQDORI 0 LFURHOHFWRP HFKDQLFDO6\ WHP V		
	7	-RXUQDORI 6HP LFRQGXFWRUV V ý ˜ 0 q	71	
	7	/ $%RQD&KLS		
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	7	1 DQRSKRWRQLFV		
	7	1 DWXUH(OHFWRQLFV		
	7	1 DWXUH3KRWRQLFV		
	7	2 SWFD		
	7	5HP RWH6HQVLQJ RI (QYLURQP HQW		
	7	6&,(1&(&+,1$,QIRUP DWRQ6FLHQFHV / ³ ³ 0 ! ð o ³ 0 ç 3 Q	73	;
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	7	$ &0 7UDQVDFWRQVRQ0 XOWP HGLD&RP SXWLQJ &RP P XQLFDWRQVDQG$ SSOLFDWRQV		
	7	$ &0 7UDQVDFWRQVRQ3ULYDF\ DQG6HFXULW		
	7	$ &0 7UDQVDFWRQVRQ6HQVRU1 HWZ RUNV		
	7	$ G+ RF 1 HWZ RUNV		
	7	$ GYDQFHG,QWHOOJHQW6\ VWHP V		
	7	$ SSOLHG3K\ VLFV/ HWHUV		
	7	&KLQD&RP P XQLFDWRQV / ³ ¹ ð ç 3 Q	71	
	7	&RP SXWHUV 6HFXULW		
	7	&RP SXWHU&RP P XQLFDWRQV		
	7	&RP SXWHU1 HWZ RUNV		
	7	' HVLJQV &RGHVDQG&U\ SWRJUDSK\		
	7	(3- 4 XDQWXP 7HFKQROR\		
	7	) URQWHUVRI ,QIRUP DWRQ7HFKQROR\ (OHFWURQLF (QJLQHHULQJ ð o 0 (•] Q • a ç 3 Q	73	
	7	,((($ QWHQQDVDQG: LUHOHVV3URSDJDWRQ/ HWHUV		
	7	,(((&RP P XQLFDWRQV/ HWHUV		
	7	,(((* HRVFLHQFHDQG5HP RWH6HQVLQJ / HWHUV		;
	7	,(((-RXUQDORI (P HJLQJ DQG6HOHFWHG7RSLFV,Q3RZ HU (OHFWURQLFV		
	7	,(((-RXUQDORI 4 XDQWXP (OHFWURQLFV		
	7	,(((-RXUQDORI 6HOHFWHG7RSLFVLQ6LJQDO3URFHVVLQJ		
	7	,(((-RXUQDORQ(P HJLQJ $ QG6HOHFWHG7RSLFV,Q &LUFXLWVDQG6\ VWHP V		

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	7	-RXUQDORI / LJKWZDYH7HFKQRORJ\		
	7	,(((0 LFURZDYHDQG: LUHOHVV&RPSRQHQW/ HYHOV		
	7	,(((3KRWRQLFV-RXUQDO		
	7	,(((3KRWRQLFV7HFKQRORJ\ / HWWHUV		
	7	,(((6HQVRUV-RXUQDO		;
	7	,(((6\VWHPV-RXUQDO		
	7	,(((7UDQVDFWLRQV$SSOLHG6XSHUFRQGXFWLYLW\		
	7	,(((7UDQVDFWLRQV%URDGFDVWQJ		
	7	,(((7UDQVDFWLRQV&LUFXLWV$QG6\VWHPV IRU9LGHR 7HFKQRORJ\		
	7	,(((7UDQVDFWLRQV&LUFXLWVDQG6\VWHPV,, ([SUHVV %ULHIV		
	7	,(((7UDQVDFWLRQV&RJQLWLYH&RPPXQLFDWLRQVDQG 1HWZRUNLQJ		
	7	,(((7UDQVDFWLRQV&RPSRQHQW 3DFNDJLQJ DQG 0DQXIDFWXULQJ 7HFKQRORJ\		
	7	,(((7UDQVDFWLRQV&RPSXWHU$LGHG' HVLJQ RI ,QWHJUDWHG&LUFXLWVDQG6\VWHPV		
	7	,(((7UDQVDFWLRQV&RQVXPHU(OHFWURQLFV		
	7	,(((7UDQVDFWLRQV* UHHQ&RPPXQLFDWLRQVDQG 1HWZRUNLQJ		
	7	,(((7UDQVDFWLRQV,QGXVWULDO(OHFWURQLFV		
	7	,(((7UDQVDFWLRQV0 DJQHWLFV		
	7	,(((7UDQVDFWLRQV0 HGLFDO,PDJLQJ		
	7	,(((7UDQVDFWLRQV1 DQRWHFKQRORJ\		;
	7	,(((7UDQVDFWLRQV6HPLFRQGXFWRU0 DQXIDFWXULQJ		
	7	,(((7UDQVDFWLRQV6LJQDODQG,QIRUPDWLRQ3URFHVVLQJ RYHU1HWZRUNV		;
	7	,(((7UDQVDFWLRQV7HUDKHUW]6FLHQFHDQG7HFKQRORJ\		;
	7	,(((7UDQVDFWLRQV8 OWUDVRQLFV) HUURHOHFWULFV$QG) UHTXHQF\ &RQWURO		
	7	,(((7UDQVDFWLRQV9HKLFXODU7HFKQRORJ\ 9/6, 6\VWHPV		
	7	,(((7UDQVDFWLRQV,QGXVWULDO,QIRUPDWLFV		
	7	,(((: LUHOHVV&RPPXQLFDWLRQV// HWWHUV		
	7	,((($&0 7UDQVDFWLRQV$XGLR6SHHFK DQG/ DQJXDJH 3URFHVVLQJ		
	7	,(7 3RZHU(OHFWURQLFV		
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	7	, QI RUP DWRQ 3 URFHWLQJ DQG 0 DQDJHP HQW		
	7	, QI RUP DWRQ 6 FLHQFHV		
	7	, QI RUP DWRQ 6\ VWP V - RXUQDO		
	7	, QWUQDWRQDO - RXUQDORI &LUFXLW7 KHRU\ $ QG $ SSOFDWRQV		
	7	- RXUQDORI %LRP HGLFDO 2 SWFV		
	7	- RXUQDORI %LRSKRWRQLFV		;
	7	- RXUQDORI &RP P XQLFDWRQV DQG , QI RUP DWRQ 1 HW7 RUNV		
	7	- RXUQDORI &RP SXWHU 6 HFXULW		;
	7	- RXUQDORI (OHFWRQLF 3 DFNDJLQJ		
	7	- RXUQDORI 0 LFURP HFKDQLFV DQG 0 LFURHQJLQHHULQJ		
	7	- RXUQDORI 2 SWFDO &RP P XQLFDWRQV DQG 1 HW7 RUNLQJ		
	7	- RXUQDORI 6 SHHFK / DQJXDJH DQG + HDULQJ 5 HVHDUFK		
	7	- RXUQDORI 6\ QFKURWRQ 5 DGLDWRQ		
	7	- RXUQDORI VKH $ P HULFDQ 6 RFLHW I RU , QI RUP DWRQ 6 FLHQFH DQG 7 HFKQRORJ\		
	7	0 LFURHOHFWRQLF (QJLQHHULQJ		
	7	0 LFURHOHFWRQLFV 5 HODELOW		
	7	1 DQRWHFKQRORJ\		
	7	QSIV) OH[LEOH (OHFWRQLFV		
	7	2 SWFV ([SUHW		
	7	2 SWFV / HWHUV		
	7	3 KRWRQLF 6 HQVRUV w › • Ž + v x ç 3	73	
	7	6 HP LFRQGXFWRU 6 FLHQFH DQG 7 HFKQRORJ\		
	7	6 , $ 0 - RXUQDORQ , P DJLQJ 6 FLHQFHV		
	7	6 SHHFK &RP P XQLFDWRQ		
	7	- RXUQDORI 6\ VWP V (QJLQHHULQJ DQG (OHFWRQLFV , Ä] Q 0 (• • ì ç 3 Q	1	
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	7	$ (8 ,QMLQDWRQDO-RXUQDORI (OHFWURQLFVDQG &RPPXQLFDWLRQV		
	7	$ QDORJ ,QWHUDFG&LUFXLWDQG6LJQDO3URFHVVLQJ		
	7	$ SSOLHG&RP SXWDWLRQDO(OHFWURP DJQHWLFV6RFLHW-RXUQDO		
	7	%HKDYLRXU ,QRUP DWLRQ7HFKQRORJ\		;
	7	&LUFXLW 6\VWHP V DQG6LJQDO3URFHVVLQJ		;
	7	' LJLWDO6LJQDO3URFHVVLQJ		
	7	' LVSOD\V		
	7	(OHFWURP DJQHWLFV		
	7	(OHFWURQLFV/ HWWHUV		
	7	(8 5 $ 6,3 -RXUQDORQ $ XGLR6SHHFK DQG0 XVLF 3URFHVVLQJ		
	7	(8 5 $ 6,3 -RXUQDORQ ,P DJHDQG9 LGHR3URFHVVLQJ		
	7	(8 5 $ 6,3 -RXUQDORQ ,QRUP DWLRQ6HFXULW		;
	7	,(((-RXUQDORI %LRP HGLFDODQG+ HDOWK,QRUP DWLFV		
	7	,(((-RXUQDORQ0 XOWLFDOHDQG0 XOWLSK\ VLFV &RP SXWDWLRQDO7HFKQLTXHV		
	7	,(((0 DJQHWLFV/ HWWHUV		;
	7	,(((1 HZ7RUNLQJ / HWWHUV		
	7	,(((6LJQDO3URFHVVLQJ / HWWHUV		
	7	,(,&((OHFWURQLFV([SUHVV		

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	7	,(,&(7UDQVDFWRQV5Q(OHFWURQLFV		
	7	,(,&(7UDQVDFWRQV5Q)XQGDPHQWDOVRI(OHFWURQLFV &RPPXQLFDWRQVDQG&RPSXWHU6FLHQFHV		
	7	,(7&LUFXLW'HVLHV6\VWHPV		;
	7	,(7&RPPXQLFDWRQV		
	7	,(7,PDJH3URFHVVLQJ		
	7	,(7,QIRUPDWRQ6HFXULW\		
	7	,(7,QWHJUDWHG&LUFXLWV6\VWHPV		;
	7	,(70LFURZDYH\$QWHQQDV3URSDJDWRQ		
	7	,(72SWRHOHFWURQLFV		
	7	,(76FLHQFH0HDVXUHPHQW7HFKQRORJ\		
	7	,QWHJUDWHG5RXQGRI&RPPXQLFDWRQ6\VWHPV		
	7	,QWHJUDWHG5RXQGRI(OHFWURQLFVDQG 7HOHFRPPXQLFDWRQV		
	7	,QWHJUDWHG5RXQGRI0LFURZDYHDQG :LUHOHVV 7HFKQRORJLHV		
	7	,QWHJUDWHG5RXQGRI6DWHOOLWH&RPPXQLFDWRQVDQG 1HWZRUNLQJ		
	7	,QWHJUDWHG5RXQGRI6HQVRU1HWZRUNV		
	7	-RXUQDORI\$VWURQRPLFDO7HOHVFRSHV,QVWUXPHQWVDQG 6\VWHPV		
	7	-RXUQDO&RPPXQLFDWRQVDQG1HWZRUNV		
	7	-RXUQDO(OHFWURPDJQHWLFV		
	7	-RXUQDO(OHFWURFKHPLFV		
	7	-RXUQDO(OHFWURPDJQHWLF:DYHVDQG$SSOLFDWRQV		
	7	-RXUQDO(OHFWURQLF0DWHULDOV		
	7	-RXUQDO,QIRUPDWRQ6HFXULW\DQG$SSOLFDWRQV		
	7	-RXUQDO,QIUDUHG0LOOLPHWHU DQG7HUDKHUW:DYHV		
	7	-RXUQDO0LFURZDYH3RZHUDQG(OHFWURPDJQHWLF(QHUJ\		
	7	-RXUQDO1DQRSKRWRQLFV		
	7	-RXUQDO3KRWRQLFVIRU(QHUJ\		
	7	0LFURHOHFWURQLFV-RXUQDO		
	7	0LFURZDYHDQG2SWLFDO7HFKQRORJ\ / HWWHUV		
	7	0RELOH1HWZRUNVDQG$SSOLFDWRQV		;
	7	0XOWLPHGLD6\VWHPVDQG6LJQDO3URFHVVLQJ		
	7	0XOWLPHGLD6\VWHPV		
	7	0XOWLPHGLD7RROVDQG$SSOLFDWRQV		
	7	1HWZRUNV		

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	7	2 SWAFDO(QJLQHHULQJ		
	7	3HHUVR 3HHU1 HWZ RUNLQJ DQG$ SSOFDWRQV		
	7	3KRWRQLFV		
	7	3K\ VLFDOFRP P XQLFDWRQ		
	7	5 DGLR 6FLHQFH		
	7	6HFXULWV DQG&RP P XQLFDWRQ1 HWZ RUNV		
	7	6LJQDO3URFHVVLQJ		
	7	6LJQDO3URFHVVLQJ ,P DJH&RP P XQLFDWRQ		
	7	7HOHFRP P XQLFDWRQV\ VWPV		
	7	7KH-RXUQDORI &KLQD8 QLYHUVLWHVRI 3RVWVDQG 7HOHFRP P XQLFDWRQV / ³ (: Î 0 q ç 3 Q	71	
	7	7UDQVDFWRQVRQ(P HUJLQJ 7HOHFRP P XQLFDWRQV 7HFKQRORJLHV		
	7	: LUHOHVV1 HWZ RUNV		
	7	: LUHOHVV3HUVRQDO&RP P XQLFDWRQV		

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	7	$&0 7UDQVDFWRQVRQ&RP SXWHU6\ VWPV		
	7	$&0 7UDQVDFWRQVRQ&RP SXWHU+ XP DQ,QWHUDFWRQ		
	7	$&0 7UDQVDFWRQVRQ&\ EHU3K\ VLFDO6\ VWPV		;
	7	$&0 7UDQVDFWRQVRQ' DWDEDVH6\ VWPV		
	7	$&0 7UDQVDFWRQVRQ* UDSKLFV		
	7	$&0 7UDQVDFWRQVRQ3URJUDP P LQJ / DQJXDJHVDQG 6\ VWPV		
	7	$&0 7UDQVDFWRQVRQ6RIWZDUH(QJLQHHULQJ DQG 0 HWKRGRORJ\		;
	7	$&0 7UDQVDFWRQVRQ6VRUDJH		
	7	$UWLFLDO,QWHOOJHQFH		
	7	&KLQHVH-RXUQDORI (OHFWURQLFV +k† œÛ´ 9' ½µ	71	

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	7	,(((7UDQVDFWLRQV/RQ&RPSXWHUV		
	7	,(((7UDQVDFWLRQV/RQ(YROXWLRQDU\ &RPSXWDWLRQ		;
	7	,(((7UDQVDFWLRQV/RQ. QRZOHGJHDQG' DWD (QJLQHHULQJ		
	7	,(((7UDQVDFWLRQV/RQ1 HXUDO1 HWZRUNV/DQG/ HDUQLQJ 6\VWHPV		;
	7	,(((7UDQVDFWLRQV/RQ3DUDOOHODQG' LVWULEXWHG6\VWHPV		
	7	,(((7UDQVDFWLRQV/RQ3DWWHUQ$QDO\VLVDQG0 DFKLQH ,QWHOOLJHQFH		
	7	,(((7UDQVDFWLRQV/RQ6HUYLFHV&RPSXWLQJ		
	7	,(((7UDQVDFWLRQV/RQ6RIWZDUH(QJLQHHULQJ		
	7	,(((7UDQVDFWLRQV/RQ9 LVXDO] DWLRQDQG&RPSXWHU * UDSKLFV		
	7	,QFRUP DWLRQDQG&RPSXWDWLRQ		
	7	,QWHUQDWLRQDO-RXUQDORI &RPSXWHU9 LVLRQ		
	7	,QWHUQDWLRQDO-RXUQDORI +XP DQ&RPSXWHU6\VWHPV		
	7	-RXUQDORI &RPSXWDWLRQ6\VWHP 6FLHQFHV		
	7	-RXUQDORI 0 DFKLQH/ HDUQLQJ 5HVHDUFK		
	7	-RXUQDORI VWH$&0		
	7	6FLHQFH&KLQD,QFRUP DWLRQ6FLHQFHV c 30 œ ¥0 œ´ 9' ½(~ µ	73	;
	7	6,$0 -RXUQDORQ&RPSXWLQJ		
	7	7KH9/ ' %-RXUQDO		
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	7	WEAüa D ð ° 73	73	
	7	$&0 7UDQVDFWLRQV/RQ$ SSOLHG3HUFHSWLRQ		
	7	$&0 7UDQVDFWLRQV/RQ$ UFKLWHFWXUHDQG&RGH 2 SWLPL] DWLRQ		
	7	$&0 7UDQVDFWLRQV/RQ&RPSXWDWLRQDO/ RJLF		
	7	$&0 7UDQVDFWLRQV/RQ(PEHGGHG&RPSXWLQJ6\VWHPV		
	7	$&0 7UDQVDFWLRQV/RQ,QWHOOLJHQW6\VWHPVDQG 7HFKQRORJ\		
	7	$&0 7UDQVDFWLRQV/RQ,QWHOOLW7HFKQRORJ\		
	7	$&0 7UDQVDFWLRQV/RQ. QRZOHGJH' LVFRYHU IURP ' DWD		
	7	$&0 7UDQVDFWLRQV/RQ0 DWHP DWLFDO6RIWZDUH		
	7	$&0 7UDQVDFWLRQV/RQ5HFRQILJXUDEOH7HFKQRORJ\ DQG 6\VWHPV		

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	7	$&0 7UDQVDFWLRQVRQ\WKH: HE		
	7	$FWLY,QFRUP DWLFD		
	7	$GJRULWKP LFD		
	7	$XWRP DWLG6RIWZDUH(QJLQHHULQJ		
	7	$XWRQRP RXV$JHQWVDQG0 XOWL$JHQW6\VWHP V		
	7	%LRLQJRUP DWLFV		
	7	%UHHGLQJVLQ%LRLQJRUP DWLFV		
	7	&RP SXWDWLRQDO&RP SOH[LW\		
	7	&RP SXWDWLRQDO/ LQJXLVWLFV		
	7	&RP SXWDWLRQDO9 LVXDO0 HGLD A×1Í %?üÈ ‰´ 9' ½µ	73	
	7	&RP SXWHU$LGHG* HRP HWULF' HVLJQ		
	7	&RP SXWHU* UDSKLFV) RUXP		
	7	&RP SXWHU1 HWZRUNV		
	7	&RP SXWHU6XSSRUWHG&RRSHUDWLYH: RUN		
	7	&RP SXWHU9 LVLRQDQG,P DJH8 QGHUVWDQGLQJ		
	7	' DWD . QRZOHGJH(QJLQHHULQJ		;
	7	(P SLULFDO6RIWZDUH(QJLQHHULQJ		
	7	(XURSHDQ-RXUQDORI ,QFRUP DWLRQ6\VWHP V		;
	7	(YROXWLRQDU\ &RP SXWDWLRQ		
	7	) RUP DO$\SHFLFDWLRI &RP SXWLQJ		
	7	) RUP DO0 HWKRGVLQ6\VWHP ' HVLJQ		
	7	) URQWLHUVRI &RP SXWHU6FLHQFH A×1Í p0 œƒ"õ ´ 9' ½(~ µ	73	
	7	) XWXUH* HQHUDWLRQ&RP SXWHU6\VWHP V		;
	7	* HR,QFRUP DWLFD		
	7	* UDSKLFDO0 RGHOV		
	7	+XP DQ&RP SXWHU,QWHUDFWLRQ		
	7	,(((7UDQVDFWLRQVRQ$ II HFWLYH&RP SXWLQJ		
	7	,(((7UDQVDFWLRQVRQ%LJ ' DWD		
	7	,(((7UDQVDFWLRQVRQ&RXG&RP SXWLQJ		
	7	,(((7UDQVDFWLRQVRQ) X]\ 6\VWHP V		
	7	,(((7UDQVDFWLRQVRQ+XP DQ0 DFKLQH6\VWHP V		
	7	,(((7UDQVDFWLRQVRQ1 HWZRUN DQG6HUYLFH 0 DQDJHP HQW		
	7	,(((7UDQVDFWLRQVRQ1 HWZRUN6FLHQFH DQG (QJLQHHULQJ		
	7	,((($&0 7UDQVDFWLRQVRQ&RP SXWDWLRQDO%LRORJ\ DQG%LRLQJRUP DWLFV		
	7	,(7 6RIWZDUH		
	7	,QFRUP DWLRQ DQG6RIWZDUH7HFKQRORJ\		
	7	,QWHUQDWLRQDO-RXUQDORI +XP DQ&RP SXWHU,QWHUDFWLRQ		

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	7	-RXUQDORI $UWLFLDO,QWHOOLJHQFH5HVHDUFK		
	7	-RXUQDORI &RPSXWHU6FLHQFHDQG7HFKQRORJ\ A×1Í p 0 œ¶ e œÛ´ 9' ½(~ µ	73	
	7	-RXUQDORI) XQFWLRQDO3URJUDPP LQJ		
	7	-RXUQDORI * OREDO2 SWLPL]DWLRQ		
	7	-RXUQDORI 3DUDOOHODQG' LVWULEXWHG&RPSXWLQJ		
	7	-RXUQDORI 6RIWZDUH (YROXWLRQDQG3URFHVV		
	7	-RXUQDORI 6\PERORF&RPSXWDWLRQ		
	7	-RXUQDORI 6\VWHPVDQG6RIWZDUH		
	7	-RXUQDORI 6\VWHPV$UFKLWHFWXUH		
	7	-RXUQDORI : HE6HP DQWLFV		
	7	. QRZOHGJHDQG,QIRUP DWLRQ6\VWHPV		
	7	. QRZOHGJH%DVHG6\VWHPV		
	7	0 DFKLQH/ HDUQLQJ		
	7	0 DWHP DWLFDO6\VWHPVLQ&RPSXWHU6FLHQFH		
	7	1 HXUDO&RPSXWDWLRQ		
	7	1 HXUDO1 HWZRUNV		
	7	3DUDOOHO&RPSXWLQJ		
	7	3DWWHUQ5HFRJQLWLRQ		
	7	5HDO7LPH6\VWHPV		
	7	5HTXLUHPHQWV(QJLQHHULQJ		
	7	6FLHQFHIRU &RPSXWU3URJUDPP LQJ		
	7	6RIWZDUHDQG6\VWHPV0 RGHOLQJ		
	7	6RIWZDUH7HVWLQJ 9HULILFDWLRQDQG5HOLDELOLW\		
	7	6RIWZDUH 3UDFWLFHDQG([SHULHQFH		
	7	8VHU0 RGHOLQJ DQG8VHU$GDSWG,QWUDFWLRQ		
7 4Ý b				
	7	A×1Í p 0A	73	
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	7	315 5-U œÛ	9	;
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	7	$&0 -RXUQDORQ(PHUJLQJ7HFKQRORJLHVLQ &RPSXWHU6\VWHPV		
	7	$GYDQFHVLQ' DWD$QDO\VLVDQG&ODVVLILFDWLRQ		

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	7	$ QQDOVRI 3XUHDQG$ SSOLHG/ RJLF		
	7	$ SSOLHG,QVMOOJHQFH		;
	7	$ UWLFLDO,QVMOOJHQFHLQ0 HGLFLQH		
	7	$ UWLFLDO/ LIH		
	7	%LR DVD0 LQLQJ		
	7	%0 & %LRLQIRUP DWLFV		
	7	&RJQLWLYH6FLHQFH		
	7	&RP SXVDWLRQDO* HRP HWU		
	7	&RP SXVDWLRQDO,QVMOOJHQFH		
	7	&RP SXVMU$ QLP DWLRQ DQG9 LLWXDO. RUOGV		
	7	&RP SXVMU&RP P XQLFDWLRQV		
	7	&RP SXVMU/ DQJXDJHV 6\ VWP VDQG6WUXFWXUHV		
	7	&RP SXVMU3K\ VLFV&RP P XQLFDWLRQV		
	7	&RP SXVMU6SHHFK DQG/ DQJXDJH		
	7	&RP SXVMUV * UDSKLFV		
	7	&RP SXVMQJ		;
	7	&RQFXUUHQF\ DQG&RP SXVDWLRQ 3UDFWLFH DQG ([SHULHQFH		
	7	' DVD0 LQLQJ DQG. QRZ OHGJH' LVFRYHU		
	7	' LVFUHWM &RP SXVDWLRQDO* HRP HWU		
	7	' LVWLEXVMG DQG3DUDOOHO DVDEDVHV		
	7	' LVWLEXVMG&RP SXVMQJ		
	7	([SHUW6\ VWP V		
	7	) XQGDP HQVD,QIRUP DWLFDH		
	7	,QIRUP DWLRQ 0 DQDJHP HQW		
	7	,QIRUP DWLRQ) XVLRQ		
	7	,QIRUP DWLRQ3URFHWVLQJ / HWWLV		
	7	,QIRUP DWLRQ5 HWUHYDO-RXUQDO		
	7	,1) 2 5 0 6 -RXUQDORQ&RP SXVMQJ		
	7	,QQRYDWLRQVLQ6\ VWP VDQG6RIVZ DUH(QJLQHHULQJ		
	7	,QVMUDFWLQJ Z LWK&RP SXVMUV		
	7	,QVMUQDWLRQDO-RXUQDORI $ SSUR[LP DWM5 HDVRQLQJ		;
	7	,QVMUQDWLRQDO-RXUQDORI ,QVMOOJHQW6\ VWP V		
	7	,QVMUQDWLRQDO-RXUQDORQ6RIVZ DUH(QJLQHHULQJ DQG . QRZ OHGJH(QJLQHHULQJ		
	7	,QVMUQDWLRQDO-RXUQDORQ6RIVZ DUH7 RROVIRU 7HFKQROR\ 7UDQVIHU		
	7	-RXUQDORI &RP SOH[LW		;
	7	-RXUQDORI &RP SXVMU,QIRUP DWLRQ6\ VWP V		
	7	-RXUQDORI ' DVDEDVH0 DQDJHP HQW		
	7	-RXUQDORI * ULG&RP SXVMQJ		
	7	-RXUQDORI / RJLF DQG&RP SXVDWLRQ		;

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	7	-RXUQDORI / RJLFDODQG$ CJHEUDLF0 HWKRGVLQ 3URJUDPPLQJ		
	7	-RXUQDORI 1 HWZRUN DQG&RPSXWHU$ SSOLFDWLRQV		
	7	-RXUQDORI 6\PERO F / RJLF		
	7	-RXUQDORI 9LVXDO&RPPXQLFDWLRQ DQG,PDJH 5HSUHVHQWDWLRQ		
	7	/ RJLFDO0 HWKRGV/LQ&RPSXWHU6FLHQFH		
	7	0 DFKLQH9 LVLRQ DQG$ SSOLFDWLRQV		
	7	0 DWKHP DWLFDO8 URJUDPPLQJ		
	7	1 DWXUDO&RPSXWLQJ		
	7	1 HXUDO&RPSXWLQJ $ SSOLFDWLRQV		
	7	3DWWHUQ5HFRJQLWLRQ/ HWWHUV		
	7	3HUVRQDODQG8 ELTXLWRXV&RPSXWLQJ		
	7	3HUYDVLYHDQG0 RELOH&RPSXWLQJ		
	7	4 XDQWXPDWLYH%LRORJ\ ÐH +U(Ÿ œ	4	
	7	6HUYLFH2 UHQWG&RPSXWLQJ DQG$ SSOLFDWLRQV		
	7	6RFLDO1 HWZRUN$ QDO\VLVDQG0 LQLQJ		
	7	6RIWZDUH4 XDOLW-RXUQDO		
	7	7KH&RPSXWHU-RXUQDO		
	7	7KH-RXUQDORI 6XSHUFRPSXWLQJ		
	7	7KH9 LVXDO&RPSXWHU		
	7	7KHRUHWLFDO&RPSXWHU6FLHQFH		
	7	7KHRUJ DQG3UDFWLFHRI / RJLF3URJUDPPLQJ		
	7	7KHRU\ RI &RPSXWLQJ 6\VWHPV		
	7	9LUWXDO5HDOLW		
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7	$ P HUFDQ-RXUQDORI 6SRUW0 HGLFLQH		
7	$ UFKLYHVRI 3K\VLFDO HGLFLQHDQG5HKDELOLWDWLRQ		
7	%LRORJ\ RI 6SRUW	;	
7	%UMVK-RXUQDORI 6SRUW0 HGLFLQH		
7	&OLQLFDO-RXUQDORI 6SRUW0 HGLFLQH	;	
7	(XURSHDQ-RXUQDORI 6SRUW6FLHQFH		
7	(XURSHDQ6SRUW0 DQDJHPHQW4 XDUWHUO0		
7	([HUFLVHDQG6SRUW6FLHQFH5HYLHZ V		
7	([HUFLVH,PPXQRORJ\ 5HYLHZ		
7	,QWHUQDWLRQDO-RXUQDORI 3HUIRUP DQFH$QDO\VLVIQ 6SRUW		
7	,QWHUQDWLRQDO-RXUQDORI 6SRUW1 XWULWLRQDQG ([HUFLVH0 HWDEROLP	;	
7	,QWHUQDWLRQDO-RXUQDORI 6SRUW0 HGLFLQH		

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7	,QWHUQDWLRQDO-RXUQDORI 6SRUWV3K\ VLRORJ\ DQG 3HUIRUP DQFH		
7	,QWHUQDWLRQDO5 HYLHZ IRUWKH6RFLRORJ\ RI 6SRUW		
7	,QWHUQDWLRQDO5 HYLHZ RI 6SRUWDQG([HUFLVH 3V\ FKRORJ\	;	
7	-RXUQDORI $ SSOLHG3K\ VLRORJ\		
7	-RXUQDORI 2 UWKRSDHGLF 6SRUWV3K\ VLFDO 7KHUDS\		
7	-RXUQDORI 5 HKDELOLWDWLRQ0 HGLFLQH		
7	-RXUQDORI 6FLHQFH DQG0 HGLFLQH LQ6SRUW		
7	-RXUQDORI 6SRUWDQG+ HDOWK6FLHQFH		*
7	-RXUQDORI 6SRUW0 DQDJHP HQW		
7	-RXUQDORI 6SRUW6FLHQFH DQG0 HGLFLQH		
7	-RXUQDORI 6SRUW6FLHQFHV		
7	-RXUQDORI 6WUHQJWK DQG&RQGLWLRQLQJ 5 HVHDUFK		
7	-RXUQDORI WKH,QWHUQDWLRQDO6RFLHW RI 6SRUW 1 XWUWLRQ		
7	. QHH6XUJHU\ 6SRUW7 UDXP DWRORJ\ $ UWKURVFRS\		
7	/ HLVXUH6FLHQFHV		
7	0 HGLFLQH DQG6FLHQFH LQ6SRUW DQG([HUFLVH		
7	3K\ VLFDO7 KHUDS\		
7	4 XDOLWDWLYH5 HVHDUFK LQ6SRUW([HUFLVH DQG +HDOWK	;	
7	5 HVHDUFK LQ6SRUW0 HGLFLQH		
7	6FDQGLQDYLDQ-RXUQDORI 0 HGLFLQH 6FLHQFH LQ 6SRUW		
7	6SRUW0 DQDJHP HQW5 HYLHZ		
7	6SRUW+ HDOWK $ 0 XOWLGLVFLSOLQDU\ $ SSURDFK		
7	6SRUW0 HGLFLQH		
7	6SRUW0 HGLFLQH 2 SHQ		
7	6WUHQJWK DQG&RQGLWLRQLQJ -RXUQDO		
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7	$ GDSWG3K\ VLFDO$ FWLYLW4 XDUWHU0		
7	$ P HUFDQ-RXQDORI 3K\ VLFDO HGLFLQH 5HKDELOLWDWRQ		
7	$ SSOLHG3K\ VLRORJ\ 1 XWULWLRQDQG0 HWDEROLVP		
7	&DUGLLHG7LVVXH,QIHFWLRQDO	;	
7	&RP P XQLFDWLRQ 6SRUWV		
7	(XURSHDQ-RXQDORI $ SSOLHG3K\ VLRORJ\		
7	+ XP DQ0 RYHP HQW6FLHQFH		
7	,QWHUQDWLRQDO-RXQDORI %HKDYLRUDO1 XWULWLRQDQG 3K\ VLFDO$ FWLYLW\		
7	,QWHUQDWLRQDO-RXQDORI 6SRUWDQG([HUFLVH 3V\FKRORJ\	;	
7	,QWHUQDWLRQDO-RXQDORI 6SRUWV0 DUN-HWQJ 6SRQVRUVKLS		
7	,QWHUQDWLRQDO-RXQDORI 6SRUWV6FLHQFH &RDFKLQJ		
7	-RXQDORI $ JLQJ DQG3K\ VLFDO$ FWLYLW\		
7	-RXQDORI $ SSOLHG6SRUW3V\FKRORJ\		
7	-RXQDORI %RQHDQG-RLQW6XUJHU\ 6HULHV$		
7	-RXQDORI (OHFWURP\RJUDSK\ DQG. LQHVLRORJ\		
7	-RXQDORI ([HUFLVH6FLHQFH) LWQHVV	;	
7	-RXQDORI + RVSLWDOLW/ HLVXUH6SRUW 7RXULVP (GXFDWLRQ		
7	-RXQDORI + XP DQ. LQHWFV		
7	-RXQDORI / HLVXUH5HVHDUFK		
7	-RXQDORI 2 UWKRSDHGLF7UDXP D		
7	-RXQDORI 2 XWGRRU5HFUHDWLRQDQG 7RXULVP 5HVHDUFK3DQQLQJ DQG0 DQDJHP HQW		
7	-RXQDORI 3K\ VLRORJHUS\		
7	-RXQDORI 6FLHQFHIQ6SRUWDQG([HUFLVH		*
7	-RXQDORI 7HDFKLQJ LQ3K\ VLFDO(GXFDWLRQ		
7	/ HLVXUH6WXGLHV		
7	2 UWKRSDHGLF-RXQDORI 6SRUWV0 HGLFLQH		
7	3K\ VLFDO7KHUDS\ LQ6SRUW	;	
7	3K\ VLFDQDQG6SRUWP HGLFLQH		
7	3V\FKRORJ\ RI 6SRUWDQG([HUFLVH		
7	5HKDELOLWDWRQ3V\FKRORJ\		
7	6FLHQFHDQG0 HGLFLQHIQ) RRWEDOO		

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7	6SRUWLQ6RFLHWV		
7	6SRUW([HUFLVH DQG3HUIRUPDQFH3V\FKRORJ\		
7	6SRUWV%LRPHFKDQLFV		
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7	$UFKLYHVRI 2UWKRSDHGLF DQG7UDXPD6XUJHU\		
7	%0 & 6SRUWV6FLHQFH0 HGLFLQHDQG5HKDELOLWDWLRQ		
7	%P M2 SHQ6SRUWDQG([HUFLVH0 HGLFLQH		
7	%RQH5HSRUWV		
7	%UDLQDQG-RXUQDORI 3K\VLFDO7KHUDS\		
7	&OLQLFDO5HKDELOLWDWLRQ		
7	&OLQLFVLQ6SRUWV0 HGLFLQH		
7	&RQGHQVLYH7LWXH5HVHDUFK		
7	(UJRQRPLFV		
7	(XURSHDQ-RXUQDO) RU6SRUWDQG6RFLHWV		
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