

>_iZjIZf_gI h[jZah\Zgby b gZmdb Dmj]Zgkdhc h
=hkm^Zjkl_ggh_ [x^`_lgh_ ijhn_kkbhgZevgh_ h[jZa
mqj_`^_gb_
©Dmj]Zgkdbc]hkm^Zjkl_gguc dhee_`^`a

J::HQ:Y IJH=J:FF: M;GHC >BKPBIIEBGU

K= NBABQ?KD:Y DMEVL

^eyki_pbZevghklb
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;Zah\uc mjh_gv ih^]hIh\db

I j h]j Zf f Z nq_[ghc ^bcpbi ebgu j Zaj Z[hl ZgZ gZ hkgh\ _ N_^_j Zevgh]h
]hkm^Zj kl_ggh]h h[j Zah\ Zl_evgh]h kl Zg^Zj l Z kj_^g_]h i j hn_kkbhgZevgh]h
h[j Zah\ Zgby ^Ze__ ± N=HK Kl H i h ki _pbZevghkl yf A_f e_nkl j hckl\ h

Hj]ZqbaZpby i Zaj Z[hl qbd

=; I HM©Dnj]Zgkdbc]hkm^Zj kl_ggu c dhee_ ^` a

JZaj Z[hl qbd

<hedh\ Z Ebeby : g^j ___\ gZ i j _i h^Z\ Zl_ev =; I HM©Dnj]Zgkdbc]hkm^Zj kl_ggu c
dhee_ ^` a

J_dhf _g^h\ ZgZ d bki hevah\ Zgbx
I j hl hdhe aZk_^Zgby PDnq_l gh
wdhghf bq_kabo^bcpbi ebg
I j hl hdhe < hl © ^ a Z\]nkl Z]

Kh]eZkh\ ZgZ
AZf _kl bl_ev ^bj _dl hj Z i h nq_[ghc
j Z[hl _BBBBBBBBBBBBBBBBBBBBBBBBBBBB
; j u d k b g Z L ;

I j _^k_^Zl_ev PD
BBBBBBBBBBBBBBBBBBB ? X F nranj Zgl h\ Z

< <hedh\ Z Ebeby : g^j ___\ gZ =; I HMD=D
< Dnj] Zg 23

KH>?J@:GB?

1. H;S:Y O:J:DL?JBKLB D: J:;HQ?C IJH=J:FFU M
>BKPBIEBGU
2. KLJMDLMJ: B KH>?J@:GB? MQ?;GHC >BKPBIEB
3. MKEH<BY J?:EBA:PBB MQ?;GHC >BKPBIEBGU
4. DHGLJHEV B HP?GD: J?AMEVL:LH< HK<H?G
>BKPBIEBGU

H;S:Y O:J:DL?JBKLB D: J:;HQ?C IJH=J:FFU MQ?;GHC >BKP
 K= NBABQ?KD:Y DMEVLMJ:

1.1. F_klh ^bkpbiebg u \ kljmdlmj_ hkgh\ghc h[jZah\ZI_evghc
 ijh]jZffu

Mq_[gZy ^bkpbiebgZ ©Nbabq_kdZy dmevlmjZ^a y\ey_lky
 khpbZevgmfZgblZjgh]h p[~~ijZaZ~~\ZI_evghc ijh]jZffu \ khhl_lkl\bb
 KIH ih ki_pbZevghklb A_fe_mkljhckl\h
 Hkh[h_ agZq_gb_ ^bkpbiebgZ bf__l ijb nhjfbjh\Zgbb b jZa

1.2. P_ev b ieZgbjm_fu_ j_amevlZlu hk\h_gby ^bkpbiebg u
 < jZfdZo ijh]jZffu mq_[ghc ^bkpbiebg u h[~~ijZaZ~~bfky hk\Zb\Zxlky mf
 agZgby

Dh^ ID HD	Mf_gby	AgZgby
HD HD	- bkihevah\Zlv nbadm ha^hjh\bl_evngx ^_yl_evghklv ^ey mdj a^hjh\vy ^hklb`_gby `bag_gguo b ijhn_kkbhgZevguo p_	- h jheb nbabq_kdhc dme \h[s_dmevlmjghf ijhn_kkbhgZevghf b khpb jZa\blbb q_eh_dZ - hkgh\u a^hjh\h]h h[jZaZ

Ebqghklgu_ j_amevlZlu

Ebqghklgu_ j_amevlZlu j_ZebaZpbb ijh]jZffu \hkibIZgby	Dh^ ebqghklg j_amevlZlh j_ZebaZpbb ijh]jZffu \hkibIZgby
HkhagZxsbc kjZ[\^Zgbghf b aZsblgbdhf _ebdhc	EJ
ljhy\eyxsbc Zdlb\gmx]jZ`^Zgkdmx ihabpbx ^ ijb_j`_gghklv ijbgpbiZf q_klghklb ihjy^hqqh wdhghfbq_kdb Zdlb\guc b mqZkl\mxsbc \ l_jjblhjbZevghf kZfhmijZ\e_gbbqbke_lhfgZ mk ^h[jh\hevq_kl\Z ijh^mdlb\gh \aZbfh^_ckl\mxst \ ^_yl_evghklb h[s_kl_gguo hj]ZgbaZpbc	EJ
Kh[ex^Zxsbc ghjfu ijZ\hihgy^dZ ke_^mxs]jZ`^Zgkdh]h h[s_kl\Z h[_ki_q_gby [_ahiZkgh]jZ`^Zg JhkkEh yevguc d mklZgh\dZf b i ij_^klZ\bl_e_c km[dmevlmj hlebqZxsbc b ^_kljmdlb\guf b ^_bZglguf ih_^_gb_f >_ g_ijbylb_ b ij_^mij`^Zxsbc khpbZevgh hiZ hdjm`Zxsbo	EJ
ljhy\eyxsbc b ^_fhgkljbjmxsbc m\Zx^gb_ljh hkhagZxsbc p_gghklv kh[kl_ggh]h ljm^Z nhjfbjh\Zgbx \ k_l_hc kj_^_ ebqghklgh b ijh dhgkljmdlb\gh]h ©pbnjh\h]h ke_^Z ^a	EJ
>_fhgkljbjmxsbc ijb_j`_gghklv d jh^ghc bklhjbq_kdhc iZfyib gZ hkgh\h^ag[\bjh^ghfm	EJ

fZehc jh^bg_ ijbgylbx ljZ^bpbhgguo fgh]hgZpbhgZevgh]h gZjh^Z Jhkkbb	
ljhy\eyxsbc m\Z`_gb_ d ex^yf klZjr_]h ihdhe_g mqZklbx \ khpbZevghc ih^^_j`d_ b \hehgl_jkdb	EJ
HkhagZxsbc ijbhjbl_lgmxghklv ebqghklb m\Z`Zxsbc kh[kl_ggmx b qm`mx mgbdBZevg kblmZpbyo \h \k_o nhjfZo b \b^Zo ^_yl_evghk	EJ
ljhy\eyxsbc b ^_fhgkljbjmxsbc m\Z`_gb_ d jZaebqguo wlghdmevlmjguo khpbZevguo dhg]jmii KhijbqZklguc d khojZg_gbx ij_mfgh`_g dmevlmjguo ljZ^bpbcb p_gghkl_c fgh]hgZpbh]hkm^Zjkl\Z	EJ
Kh[ex^Zxsbc b ijhiZ]Zg^bjmxsbc ijZ\beZ [_ahiZkgh]h h[jZaZ `bagb kihj]Z ij_^mij_ ij_h^he_\Zxsbc aZ\bkbfbhklb hl Zedh]hey lZ[Z _s_kl\ ZaZj]guo b]j b l^ KhojZgyxsbc mklhcqb\hklv \ kblmZlbbgbbkhkjufbl_evgh f_g kblmZpbyo	EJ
AZ[hlysbcky h aZsbl_ hdjm`Zxs_c kj_^u kh[[_ahiZkghklb \ lhf qbke_ pbnjh\hc	EJ
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ljbgbfZxsbc_k_f_cgu_ p_gghklb]hlh\uc d kha \hkiblZgbx ^_l_c ^_fhgkljbjmxsbc g_ijbylb_g moh^Z hl jh^bl_evkdhc hl_lkl_gghklb hldZ k\hbfb ^_lvfb b bo nbgZgkh\h]h kh^_j`Zgby	EJ
Ebqghklgu_ j_amevlZlu j_ZebaZpfb \hki]p]Zgby hij_^_e_ggu_ hljZke_\ufb lj_[h\Zgbyfb d ^_eh\uf dZq_kl\	
>_fhgkljbjmxsbc]hlh\ghklv b kihkh[ghklv _klb ex^vfb ^hklb]Zlv \ g_f \aZbfhihgbfZgby gZoh khljm^gbqZlv ^ey bo ^hki]p]h\gZevghc ^_yl	EJ
ljhy\eyxsbc khagZl_evgh_ hlghr_gb_ d h[jZah\Zgbx dZd mkeh\bx mki_rghc ijhn_ h[s_kl_gghc ^_yl_evghklb	EJ
ljhy\eyxsbc]jZ`^Zgkdh_ hlghr_gb_ d ijhr ^_yl_evghklb dZd d \haebqgm]hbm qZklby \ h[s_kl_gguo]hkm^Zjkl_gguo h[s_gZpbhgZe	EJ
ljbgbfZxsbc hkgh\u wdheh]bq_kdhc dmevlmj kh\j_f_gghfm mjh\gx wdheh]bq_kdh]h fure_g hiul wdheh]bq_kdb hjb_glbjh\Zgghchpj_g]hdk ijZdlbq_kdhc ^_yl_evghklb \ `bag_gguo ijhn_kkbhgZevghc ^_yl_evghklb	EJ
ljhy\eyxsbc p_gghklgh_ hlghr_gb_ d dmevlm dmevlmj_j_qb b dmevlmj_ ih_^_gby d djZkh	EJ
Ebqghklgu_ j_amevlZlu j_ZebaZpbb ijh]jZffu \hkibl hij_^_e_ggu_ km[t_d]Zfb h[jZah\Zl_evgh]h ijhp_k	
HkhagZxsbc ijbqZklghklv d bklhjbb dhee_^`Z	EJ 8
HkhagZxsbc gjZ\kl_ggu_ djbl_jb]Zihkg^h\gby mk\h_gby h[s_q_eh_q_kdbo p_gghkl_c	EJ 9

KLJMDLMJ: B KH>?J@:GB? MQ?;GHC >BKPBIEBGU
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<b^ mq_[ghc jZ[hlu	H[t_f qZk
H[t_f h[jZah\ZI_evghc ijh]jZffu mq_[ghc ^bkpb	178
< l q n h j f _ i j Z d l b q _ k d h c i h ^] h l h \ d b	172
< l q	
l_hj_lbq_kdh_ h[mq_gb_	6
ijZdlbq_kdb_ aZgylby	172
ljhf_`mlhqgZy Zll_klZpbjy_ ^bnn_j_gpjbh\Zggh]h aZq_lZ \ k_f_kljZo	

L_fZlBq_kdbc ieZg b kh^_j`Zgb_ mq_[ghc ^bkpbiebg

GZbf_gh\Zgb_jZa^_eh\ b l_	Kh^_j`Zgb_ mq_[gh]h fZl_jbZeZ b nhjfu hj]ZgbaZpbb ^_yl_evghk	H[t_f \ qZkZ	Dh^u dhfi_l_gp nhjfbjh\Zgbx dhlhjuo kihkh[kl\m_l we_f_gl ijh]jZff
1	2	3	4
<_^_gb_ l_hj_lBq_kd aZgylby	Kh^_j`Zgb_	6	HD 08D
	F_klh nbabq_kdhc dmevlmju \ `bagb b ^_yl_evghk ki_pbZebkIZ BgkljmdIZ` ih l_ogbd_ [_ahiZkghklb gZ mjf	2	
	2. KhpBZe-v[gh]bq_kdb_ hkgh\u nbabq_kdhc dmevlmju	2	
	Hkgh\u f_lh^bdb kZfhklh\Zgylmgu ababq_kdbfb mijZ`g_g Nbabq_kdb_ mijZ`g_gby jZaebqghc gZijZ\^e_gghklb Hkh[aZgylbc ^ey xghr_c b ^_\mr_d	2	
JZa^_e	Ez]dZy Zle_lbdZ	46	
L_fZ ;_] gZ dhjhl kj_^gb_ b ^ebggu_ ^bkIZgpbb	Kh^_j`Zgb_	26	HD 08D
	<hkibIZgb_ h[s_c \ughkeb\hklb Ki_pbZevgu_ [_]h\u_	2	
	2. JZa\bIb_ kdjhklghuo dZqG_kaldbc klZjl ;_] f	2	
	3. <hkibIZgb_ h[s_c \ughkeb\hklb]Z gZ kj_^gb_ b ^ebg	6	
	4. <hkibIZgb_ h[s_c \ughkeb\hklb]Z gZ ^ebggu_ ^bkIZg f	2	
	5. <hkibIZgb_ kdjhklghc \ughkeb\hklb]Zjl ;_] f	6	
	6. <hkibIZgb_ h[s_c \ughkeb\hklb Q_eghgguc [_] o f 7. Djhkkh\uc [_] f	2 6	
L_fZ lju`hd \ ^ebg k f_kIZ	Kh^_j`Zgb_	8	HD HD
	L_ogbdZ iju`dZ \ ^ebgm k f_kIZ	4	
2. lju`hd \ ^ebgm k f_kIZ	4		
L_fZ WklZn_lguc	Kh^_j`Zgb_	4	
	1. Bamq_gb_ i_j_^Zqb wklZn_lghc iZehqdb	4	
L_fZ F_lZgb_]jZgZlu	Kh^_j`Zgb_	8	HD HD
	1. H[mq_gb_ l_ogbdb f_lZgby]jZgZlu	4	
2. F_lZgbb]jZgZqZ ghjfZlB\Z	4		

JZa^_e ;Zkd_l[he		38		
L_fZ	Kh^_j`Zgb_	12		
ljZ\beZ b]ju	Kh_jr_gkl\h\Zgb_ygby fyqZ_^Zq^\b`_gbb	6	HD	HD
<_^_gb_ ijb	Kh_jr_gkl\h\Zgb_ [jhkdh\ fyqZ k f_klZ b \ ^\b`_gbb	6		
b i_j_^ZqZ				
fyqZ				
L_fZ	Kh^_j`Zgb_	6		
L_ogbdZ	Kh_jr_gkl\h\Zgb_ l_ogbdZ b q f k d b o [Zkd_l[he_ L_ogbdZ rlj	6	HD	HD
i_j_f_s_gbc	[jhkdZ			
klh_d [jhkd				
L_fZ	Kh^_j`Zgb_	10		
Bg^b\b^mZev	Bg^b\b^mZevgZy b dhfZg^gZy lZdlbdZ b]ju \ aZsbl_	4	HD	HD
y b dhfZg^gZ	Bg^b\b^mZevgZy b dhfZg^gZy glZidZ b dgZ b]ju \	6		
lZdlbdZ b]ju				
L_fZ	Kh^_j`Zgb_	10		
Km^_ckl\h	Mq_[gZy b]jZ ih mijhszgguf ijZ\beZf Km^_ckl\h	4	HD	HD
	Mq_[gZy b]jZ Km^_ckl\h	6		
JZa^_e <he_c[he		30		
L_fZ	Kh^_j`Zgb_	8		
Klhcdb	Kh_jr_gkl\h\Zgb_ l_ogbdb i_j_f_s_gbc klh_d b iju`dh	4	HD	HD
i_j_f_s_gby	ljZ\beZ b]ju Mq_[gZy b]jZ	4		
iju`db				
ljZ\beZ b]ju				
L_fZ	Kh^_j`Zgb_	4		
ljb_f b	Kh_jr_gkl\h\Zgb_ l_ogbdb ijb_fZ b i_j_^Zqb fyqZ ^\m	2	HD	HD
i_j_^Zqb fyq	Kh_jr_gkl\h\Zgb_ l_ogbdb ijb_fZ b i_j_^Zqb fyqZ ^\m	2		
L_fZ	Kh^_j`Zgb_	4		
lh^Zqb fyqZ	Kh_jr_gkl\h\Zgby l_ogbdb gb`g_c _jog_c b [hdh\hc	4	HD	HD
L_fZ	Kh^_j`Zgb_	6		
GZiZ^Zxsbc	Kh_jr_gkl\h\Zgb_ l_ogbdb \b^h\ gZiZ^Zxs_]h m^ZjZ	4	HD	HD
m^Zj	2. Kh_jr_gkl\h\Zgb_ l_ogbdb \b^h\ [ehdbjh\Zgby	2		
;ehdbjh\Zgb				
L_fZ	Kh^_j`Zgb_	8	HD	HD

LZdlbdZ gZiZ^_gby aZsblu	Kh_jr_gkl\h\Zgb_ bg^b\b^mZevguo b]jmiih\uo lZdlbq	6		
	gZiZ^_gbb 2 Kh_jr_gkl\h\Zgb_ bg^b\b^mZevgulē dcl b]jm kichh a o^_ckl\b d	2		
JZa^_eEu`gZy ih^]hIh\dZ		36		
L_f 4.1 L_ogb eu`gh]h oh^Z	Kh^_j`Zgb_	20		
	1. L_ogbdZ ihi_j_f_ggh]h h^gh\j_f_ggh]h ^\mrZ`gh]h dhgvdh\	10		
	2. Kh_jr_gkl\h\Zgb_ l_ogbdb eul]gh]h`_h_gZy ^bklZ-gpbb	8		
	3. Kh_jr_gkl\h\Zgb_ l_ogbdb eul]gh]h`_h_gZy ^bklZ-gpbb	2		
L_f 4.2. Kimkd ih^t_f	Kh^_j`Zgb_	16	HD	HD
	1. L_ogbdZ kimkdh\ k]hju ih\hjhlh\ lhjfh`_gbc	4		
	2. L_ogbdZ ih^t_fh\ \]hjm @,E_hk_dghc^a Kdhevaysbf rZ]h	6		
	3. Kimkd ih^t_f Kh_jr_gkl\h\Zlv lhjfh`_gb_ gZ kimkd_ ih	6		
JZa^_5e HNI k we_f_glZfb]bfgZklbdb		12		
L_f 5.1. =bfgZklbdZ	Kh^_j`Zgb_	4	HD	HD
	1. H[s_jZa\b\Zxsb_ mijZ`g_gby : d j m \ Z j l b d Z k l h c d b	4		
L_f 5.2. H[sZy nbabq_kdZy ih^]hIh\dZ GhjZlbu =L	Kh^_j`Zgb_	8		
	1. HNI MijZ`g_gby gZ kgZjy^Zo	2	HD	HD
	2. HNI MijZ`g_gby k hly]hs_gbyfb JZa\bIb_ kbeu	2		
	3. HNI MijZ`g_gby gZ kgZjy^Zo =LH Ih^]hIh\dZ b k^ZqZ	4		
ljhf`_mlhqqZy Zll_klZpbjy_ ^bnn_j_gpbjh\Zggh]h aZq_IZ k_f_		12		
<k_]h		178		

2.3. L_fZlBq_kdbc ieZg ih k_f_ ~~DhjZb~~ q_kl\h qZkK_fh_kljZf

GZbf_gh\Zgb_ jZa^_eh\ b	k_f_klju					
	3	4	5	6	7	8
<_^_gbl_hj_lbq_kdb_ aZgylby	6					
JZa^_eEz]dZy Zle_lbdZ	12	10	12		12	
L_fZ ;_] gZ dhjhldb_ kj_^ ^ebggu_ ^bklZgpbb	6	6	6		8	
L_fZ lju`hd \ ^ebgm k f_kl	2	2	2		2	
L_fZ WklZn_lguc [_]	2		2			
L_fZ F_lZgb_]jZgZlu	2	2	2		2	
JZa^_e ;Zkd_l[he	14		16		8	
L_fZ ljZ\beZ b]ju <_^_gb_ i i_j_^ZqZ fyqZ	4		6		2	
L_fZ L_ogbdZ i_j_f_s_gbc [jhkdh\	2		2		2	
L_fZ Bg^b\b^mZehvfgZy^ pZy lZdlbdZ b]ju	4		4		2	
L_fZ Km^_ckl\h	4		4		2	
JZa^_e <he_c[he		10		12		8
L_fZ Klhcdb i_j_f_s_gby iju ljZ\beZ b]ju		4		2		2
L_fZ ljb_f b i_j_^Zqb fyqZ		2		2		
L_fZ lh^Zqb fyqZ				2		2
L_fZ GZiZ^Zxsbcem^Zjh\Zg		2		2		2
L_fZ LZdlbdZ gZiZ^_gby b		2		4		2
JZa^_eEu`gZy ih^]hlh\dZ		12		12		12
L_fZ L_ogbdZ eu`gh]h oh^Z		8		6		6
L_fZ Kimkd ih^t_f		4		6		6
JZa^_5e HNI k we_f_glZfb]bfgz		8	4			
L_fZ =bfgZklbdZ		2	2			
L_fZ H[sZy nbabq_kdZy ih^] GhjZlB\ u =LH		6	2			
>bnn_j_gpbjh\Zgguc aZq_l	2	2	2	2	2	2
BLH=	34	42	34	26	20	22

MKEH<BY J?:EBA:PBB MQ?;GHC >BKPBIIEBGU

>ey j_ZebaZpbb ijh]jZffu mq_[ghc ^bkpbiebg u ij_ ^
kihjl\b\gu_h[t_dlu
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H[hjm^h\Zgb_
E_]dZy Zle_lbdZ k_dmg^hf_ju jme_ldZ k\bklhd iju`dl
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;Zkd_l[he fyqb [Zkd_l[hevgu_ gZ[b\gu_ fyqb sblu [Zkd_
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BgnhjZpbhgh_ h[_ki_q_gb_ j_ZebaZpbb ijh]jZffu
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bf__l_iqZlgu_ b beb we_dljhggu_ h[jZah\ZI_evgu_ b bgnhjZ
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;brZ_\Z : : Nbabq_kdZy dmevlmjZ mq_[gbd >^ey \k_o
: : ;brZ_\Z-Hba^ klFjh @\B a^ZI_evkdbc ^hf :dZ^_fbyk-ISBN
978-5-4468-9406-2 -

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1. :]__\Z = N leZ\Zgb_ mq_[gh_ ihkh[b_ ^ey kih = N :]
LbohghZ_-ba^ k^l_KZgdLl_j[mj] EZgv ^2 k^2 ISBN 978-5-8114-
9471-2. ^2 L_dkl we_dljhgguEZgv we_@bj[reghh_qgZy kbkl_fZURL:
<https://e.lanbook.com/book/195475> ^ZIZ h[jZs_gby ^2
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