



# ARTS2092

; `cVU`A YXJU. `A Uf\_Yhgž: `ck g`UbX`7i `h fYg

GYa YghYf`Hk c`#`&\$%



GWXcc`cZHAY`5ftg`UbX`A YXJU`#`I BGK `5ftg`UbX`GcWJU`GWYbWg

7 ci fgY`Cj Yfj JYk

`GHUZZ7cbhUWhi8YHJ]`g`

`7cbj Ybcfg`

B Ua Y	9a Uj`	5j Uj`UVj]m	@cWjhcb	D\cbY
GWtthiG\UbYf	g"g\UbYf4 i bgk "YXi "Ui	H\i fgXUmj %%Ja !%da	' %%9`K YVghYf 6i ]X]b[	\$&`-' , ) *, \$(

`Hi hcfg`

B Ua Y	9a Uj`	5j Uj`UVj]m	@cWjhcb	D\cbY

: cf'a cfY`]bZcfa Uhc b`UVci h`hY`UHYbXUbW`dfcfcW`g`]b`h`Y` : UW`hmcZ5fng`UbX`GcWU`  
GWYbWg. [\fhdg.##k k "Ufng"i bkg "YXi "Ui #W ffYbhghi XYbfg#UWUXYa \]W\]bZcfa Uhc b#dfcfcW`g! \[ i \]XY`\]bYg#](#)

## 5WUXYa ]WbZcfa Uhc b`

: cf`YggYbh]U`ghi XYbh]bZcfa Uhc b`fY`Uhb[ `fc. fYei Ygrg`Zcf`YI h`bg]cb/fYj ]Yk`cZa Uf\_g/cWW dUhc bU`YU`h`  
UbX`gUZ`m`YI Ua ]bUhc b`dfcW`Xi fYg/gdYWU`W`bg]XYfUhc b`]b`h`Y`Yj Ybhcz]`bYgg`cf`a ]gUXj Ybh fY/  
ghi XYbhYei ]mUbX`X]gUV]`]m`UbX`ch`Yf`YggYbh]U`UWUXYa ]W]bZcfa Uhc b`z  
gYY` [\fhdg.##k k "Ufng"i bkg "YXi "Ui #W ffYbhghi XYbfg#UWUXYa \]W\]bZcfa Uhc b#dfcfcW`g! \[ i \]XY`\]bYg#](#)

7ci fgY'8YHJ]`g

7fYX]hDc]bHg`\*`

Gi a a UfmicZ`h`Y'7ci fgY

Gi V`Y`W`h`5`f`Y`U` `A`Y`X`]U`ž`7`i` `h`i`f`Y`U`b`X`'H`Y`W`b`c`c`[`n`f`i` `c`v`U`'A`Y`X`]U` `A`U`f`\_`Y`h`g`ž`:` `c`k`g`'U`b`X`'7`i` `h`i`f`Y`g`f`i`Z`c`W`g`Y`g`'c`b`  
h`Y`'f`Y`'U`h`c`b`g`\\`d`'V`Y`k`Y`Y`b`'a`Y`X`]U`'U`b`X`'['`c`v`U`']g`U`h`c`b`"K`Y`'k`]'`Y`I`U`a` ]b`Y`'h`Y`'\`]g`h`c`f`m`i`c`Z`]b`h`f`b`U`h`c`b`U`'h`f`U`X`Y`'Z`c`k`g`  
]b`'U`i`X`]c`j` ]g`i`U`'['`c`c`X`g`'U`b`X`'g`Y`f` ]W`g`'U`b`X`'Y`I`d`'c`f`Y`'\`c`k`'h`Y`g`Y`'\`U`j`Y`'W`U`b`[`Y`X`'h`f`c`i`[`\`['`c`v`U`'h`f`Y`b`X`g`'h`c`k`U`f`X`  
f`Y`[`]c`b`U`]g`U`h`c`b`ž`W`c`i`b`h`f`Z`c`k`'U`b`X`'h`Y`'b`W`Y`U`g`]b`[`'h`f`U`b`g`b`U`h`c`b`U`'d`f`c`X`i`W`]c`b`'U`b`X`'X`]g`h`f`]V`i`h`c`b`'c`Z`a`Y`X`]U`"B`Y`k`'m`  
Y`a`Y`f`[`]b`[`'Z`c`f`a`g`'c`Z`W`'h`i`f`Y`'U`b`X`'X`Y`b`h`]m`i`V`U`g`Y`X`'c`b`'h`Y`'Y`I`d`Y`f`]Y`b`W`'c`Z`W`c`g`a`c`d`c`]h`U`b`]g`a`ž`\\m`V`f`]X`]m`i`U`b`X`  
X`]U`g`d`c`f`U`'k`]'`V`Y`'Y`I`U`a` ]b`Y`X`]'b`'X`Y`H`J`]'b`'f`Y`'U`h`c`b`'h`c`'a`Y`X`]U`'Z`c`f`a`g`'g`i`W`'U`g`'h`'Y`j` ]g`]c`b`'Z`c`f`a`U`h`g`'U`b`X`'X`f`U`a`U`  
d`f`c`[`f`U`a`g`ž`b`Y`h`k`c`f`\_`Y`X`'a`Y`X`]U`ž`Z`'a`'U`b`X`'a`i`g`]W`G`h`X`Y`b`h`g`'W`c`a`d`'Y`h`b`[`'h`l`]g`'W`c`i`f`g`Y`'k`]'`f`Y`W`]j`Y`'U`'h`c`f`c`i`[`\`



# 5ggYgga Ybh

D'YUgY' BchY. Mci 'a i ghia U\_Y'U'gYf]ci g'UHYa dhUhiU''5ggYgga Ybhg'hc'VY'Y'[[ ]V'Y'hc'DUgg'h' ]g Wci fgY

Gi Va ]gg]cb'cZ5ggYgga YbhHUg\_g

5''k f]HY'b'Ugg][ ba Ybhg'bYYX'hc'VY'gi Va ]HYX'hc'Hi fb]h]b'cb'h'Y'Wci fgY'A ccX'Y'g]HY''Mci 'a i ghigi Va ]h k f]HY'b'k cf\_]b' %&!dc]bhZcblZ'Xci V'Y'gdUW'X'UbX'dU[ ]bUHY'X''8c'\_YYd'Ub'Y'Y'W'fcb]WUbX'\UfX'Wc'dmZc'f mci fgY'Z'Z'mci '\Uj'Y'UbmidfcV'Ya g'gi Va ]h]b[ 'j ]U'Hi fb]h]bZ'gYbX'mci f'7cbj YbYf'U'k cfX'XcWcf'dXZ] Yfg]cb cZ'mci f'Ugg][ ba Ybh]a a YX]UH'Y'm'hc[ Y'h'Y'f'k ]h'Ub'Yi d'UbU'h]cb'cZ'h'Y'dfcV'Ya 'mci 'UfY'YbWci bhYf]b[ "

Mci 'g'aci 'X'h'Yb'Zc''ck 'h'Y'df'hc'Wc''ci h]bYX'Uh'h'Y'Zc''ck ]b[ 'g]HY. '\h'hd.##Y'UW' ]b[ "i bgk "YXi "Ui #a ccX'Y! gh XYbhg!\Y'd

5Xj ]W'UVci hk \ca 'hc'Wc'bhUW'h]g'[ ]j Yb'k \Yb'mci ''c[ ' ]b'hc'A ccX'Y''Gi W'UXj ]W' ]bW'XYg'h'Y'Zc''ck ]b[ . 'Z mci '\Uj'Y'h'ci V'Y''c[ [ ]b[ ' ]bZ'cf'mci 'W'bbch'gY'Y'mci f'Wci fgY'cbW'mci ''c[ ' ]bZ'd'YUgY'Wc'bhUW'h'Y' #H GYfj ]W'7Yb'hY'Zc'f'Ugg]g'h'Ub'W''

: cf'Yb'fc'a Ybh'UbX''c[ ]b' ]ggi Yg'cf'dfcV'Ya g'k ]h'A ccX'Y'UbX' ]hg'hc'c'gZ''\_Y'Hi fb]h]bZ'd'YUgY'Wc'bhUW'h'Y' #H GYfj ]W'7Yb'hY'

#H'GYfj ]W'7Yb'hY'9a U]. ]hgYfj ]W'W'bhY'4 i bgk "YXi "Ui  
#h'Y'fbU'. 'l ) % ' ' '  
9l h'Y'fbU'. f\$&E-' , ) % ' ' '  
#h'Y'fbU'h]cbU'. 'Z \* % & '- , ) % ' ' '

ቅ፡'UXX]h]cbžmci 'UfY'XYWUf]b[ 'ከሁከሉY'UggYggcf'cZከ]g'ከሃa 'a Umž'Zcf'UggYgga Ybhdi fdcgYg.

'Dfcj ]XY'U'Wፌdmiኮ'UbchሉYf'ghUZZa Ya VYf'cZከY'I b]j Yfg]m

'7ca a i b]WUከ'U'WፌdmiኮZከ]g'UggYgga Ybh]ከሃa 'ኮ'U'd'U[ ]Uf]ga 'WXYW\_]b[ 'gYfj ]W'fji W'Ug'Hi fb]ከ]b፡k \]W  
a UmከYb'fYከ]b'U'WፌdmiኮZከY'UggYgga Ybh]ከሃa 'cb']ከ]XUከUVUgY'Zcf'ከሉY'di fdcgY'cZከ hi fY'd'U[ ]Uf]ga  
WXYW\_]b[ "

### 5ggYgga YbhHUg\_g'

5ggYgga YbhHUg_	K Y][ \h	8i Y'8Uከ	Ghi XYbh@YUfb]b[





g]a ]`Uf]mfYdcftg"

Gi Va ]gg]cb'cZ5ggYgga YbhHUg\_g

Gh XYbng'UFY'YI dYWVX'hc'di hHAY]f'bUa Yg'UbX'ghi XYbhbi a VYfg'cb'Yj YfmdU[ Y'cZHY]f'Ugg][ ba Ybng"

Hi fb]hb'Gi Va ]gg]cb

Zmci YbWci bhYf'U'dfcV'Ya 'k \Yb'UHYa dh]b[ 'hc'gi Va ]hrci f'Ugg][ ba YbhHfci [ \ 'Hi fb]hbzd'YUgY  
HY'Yd\cbY'9I HYfbU'Gi ddcfhcb'-', ) '' '' %cf'Ya U]'HYa 'cb'[YI HYfbU'HY'fji ddcfh4 i bgk "YXi "Ui."](#)Gi ddcfh  
\ci fg'UFY', .\$\$Ua '-'%. \$\$da 'cb'k YY\_XUmg'UbX'-. \$\$Ua '-'). \$\$da 'cb'k YY\_YbXg'f1 \*) 'XUmg'U'mYUfL' Zmci  
UFY'i bUV'Y'hc'gi Va ]hrci f'Ugg][ ba YbhXi Y'hc'U'ZU' 'hk ]H'Hi fb]hb'rci 'a UmiUdd'miZcf'Ub'YI HYbg]cbz'Vi hrci  
a i ghfYH]b'rci f'h]W\_Yhbi a VYf'Z'ca '9I HYfbU'Gi ddcfhfU'cb[ 'k ]H'UbmchYf'fY'Yj UbhXcW a YbngL'hc  
]bWi XY'Ug'Yj ]XYbW'hc'gi ddcfhrci f'YI HYbg]cb'Udd'jW]hcb" Zmci 'Ya U]'9I HYfbU'Gi ddcfhrci 'k ]`  
Ui hca UH]W'`miFYW'j] Y'U'h]W\_Yhbi a VYfz'Vi h]Zmci 'HY'Yd\cbY'rci 'k ]`bYYX'hc'gdYW]W'`miUg\_'Zcf'cbY"  
Hi fb]hb'U'gc'dfcj ]XYg'i dXUH'g'cb'HY]f'gmghYa 'ghU'g'cb'Hk ]HYf"

; YbYfU'`mz'UggYgga YbhHUg\_g'a i ghVY'gi Va ]HYX'Y'YWfcb]W'`mj ]U'Y]HYf'Hi fb]hb'cf'U'A ccX'Y  
Ugg][ ba Ybh'`b ]bgHUbW'g'k \YfY'h.]g ]g'bchidcgg]V'YZ]hk ]`VY'g'UH'X'cb'rci f'Wci fgY'g'A ccX'Y'g]HY'k ]H  
U'HYfbUH] Y'gi Va ]gg]cb'XYH]g"

@UH'5ggYgga YbhDYbU'h]Yg



5 WUXYa ]W<c bYghmUbX`D`U[ ]Uf]ga

D`U[ ]Uf]ga `]g`i g]b[ `hY`k cfXg`cf]XYUg`cZchYfg`UbX`dfYgYbh]b[ `hYa `Ug`mci f`ck b" `hWUb`hU`Y`a Ubm  
Zcfa gZ`Zca `XY`]VYfUHY`WXYU]b[ `hc`UWV]XYbhU`mW`dm]b[ `Zca `U`gci fW`k ]h`ci hUW\_bck`YX[ Ya Ybh`

I BGK `[ fci dg`d`U[ ]Uf]ga `]bhc`hY`Zc`ck ]b[ `WUHY[ cf]Yg.

7 cdm]b[ .`i g]b[ `hY`gUa Y`cf`j Yfmg]a ]Uf`k cfXg`hc`hY`cf][ ]bU`hYI hcf`]XYU`k ]h`ci hUW\_bck`YX[ ]b[ `hY`  
gci fW`cf`i g]b[ `ei chU]cb`a Uf\_g" `H\]g`U`gc`Udd`]Yg`hc`]a U[ YgZ`UfhUbX`XYg][ b`dfc`YWgZ`Ug`k Y`Ug  
dfYgYbhU]cbg`k \YfY`gca YcbY`dfYgYbh]g`UbchYf`g`]XYUg`cf`k cfXg`k ]h`ci hWYX]h`

hUddfcdf]UHY`dUfUd`fUg]b[ .`7`Ub[ ]b[ `U`ZYk `k cfXg`UbX`d`fUgYg`k \]Y`a cghmifYU]b]b[ `hY`cf][ ]bU`  
ghfi W`i fY`UbX`#`f`dfc[ fYgg]cb`cZ]XYUg`cZ`hY`cf][ ]bU`Z`UbX`]bZcfa U]cb`k ]h`ci hUW\_bck`YX[ Ya Ybh`H\]g`U`gc  
Udd`]Yg`]b`dfYgYbhU]cbg`k \YfY`gca YcbY`dUfUd`fUgYg`UbchYf`g`]XYUg`cf`k cfXg`k ]h`ci hWYX]hU`bX`hc  
d]YW]b[ `hc[ YhYf`ei chYg`UbX`dUfUd`fUgYg`]bhc`U`bYk `k \c`Yz`k ]h`ci hUddfcdf]UHY`fYZYfYbW]b[ "

7 c`i g]cb. `k cf\_]b[ `k ]h`chYfg`Vi hdUgg]b[ `cZ`hY`k cf\_]Ug`U`dYfgcb`g`]bX]j ]Xi U`k cf\_"`7 c`i g]cb`U`gc

i bXYfgHUbX'mci f'f][ \hg'UbX'fYgdcbg]V']hYg'Ug'U'gh XYbhUhl BGK







