



ARTS3052

9b[`]g\ `bHYfbg\]d

HYfa `H\fYY`##`&\$%-



7 ci fgY'Cj Yfj JYk

'GHUZZ'7 cbhUW'i8YHU]'g'

'7 cbj Ybcfg'

| | | | | |
|-------------|----------------------------|----------------|--|-------|
| B Ua Y | 9a U]' | 5j U]'UV]'m | @cWU]h]cb | D\cbY |
| 9a a U'>UbY | Ya a U"Uby4 i bgk "YXi "Ui | 6mUddc]bha Ybh | %%) ž'@Yj Y''%ž F cVYfh K YVghYf | |

GWXcc`7 cbhUW'i bZcfa Uh]cb

Fcca " %&ž'Yj Y"" F cVYfhK YVghYf'6i]X]b[

D\cbY. f\$&Ł-' ,) '(,) *

9a U]': [gUa 4 i bgk "YXi "Ui](#)

K YVg]hY: [\h\]dg.#gUa "Uf\]g"i bgk "YXi "Ui](#)

H\Y'GWXcc`cZhY'5f]g'UbX'A YX]U'k ci 'X`_Y'hc'F YgdYWw'`m5W_bck 'YX[Y'hY'HfUX]h]cbU`7 i g]cX]Ubgž
hY'6YXY[U'fP Ybg]b[hcb'WJa di gŁž; UX][U'f7]mUbX'5f]i'8Yg][b'7 Ua di gYgŁ'UbX'hY'B [i bbUk U`
dYcd'Y'f5i g]fU'Ub'8YZ'bvW': cfW'5WUXYa m]b'7 UbVYffUŁ'cZhY'UbXg'k \YfY YUW'WJa di g'cZI BGK 'jg
'cWU]hYX"

7 ci fgY'8YHJ`g

7 fYX]hDc]bqg '*`

Gi a a UfmicZ\hY'7 ci fgY

Gi VYWh5fYU.'7` Y'feZ

H\]g'Wci fgY'dfcj]XYg'mci `k]h'Ub'cddcfh b]mhc'i bXYftU_Y'k cf_]bH[fUHx''YUfb]b['UbX'[U]b']bXi gHfm
YI dYf]YbW'k]h'U'\cghcf[Ub]gU]cb'WcgY'mfY'UHx'hc'mci f'A U'cf']b'9b[']g\"Mci 'a UmU'gc'Udd'mhc'k cf_
cb'UHUW'a Ybhc'b'Ub'UWXYa]WfYgYUfW'dfc'YWhcf'k cf_]b'Ub'YX]rcf]U'fc'Y'Zcf'Ub'UWXYa]W'ci fbU"
=XYU'nz'mci `k]'i bXYftU_Y'Ub']bH'fbg\]d'UZhf'mci '\Uj Y'Wca d'YHx'%) 'mYUfg'cZz`!hja Y'gh Xmfcf
Yei]j U'Yb'hc'UbX'Wca d'YHx'U'a]b]a i a 'cZ% 'I C 7]b'hY'A U'cf''5h'hY'YbX'cZ\hY']bH'fbg\]d'mci `k]`
dfcj]XY'U'gi a a Uhj Y'fYdcfhcZmci f'YI dYf]YbW'g'UbX'k cf_]YI Ua d'Yg'Wca d'YHx'Xi f]b['hY']bH'fbg\]d"

H\Y']bH'fbg\]d'fYei]fYg'U'hcU'Wca a]ha YbhcZ%\$!%) '\$\ci fg'cZk cf_'k]h'U'\cghcf[Ub]gU]cb'UbX'a Um
bcfa U'mVY'hU_Yb']b'Zfgh'gYWcbX'cf'gi a a Y'f'gYa Ygh'f'`bH'fbg\]d'cddcfh b]hYg'UfY'UXj Yfh'gYX'j]U'hY
GVXcc`cZ\hY'5f'g'UbX'A YX]U'`bH'fbg\]d'BYk g'YH'f'5'hY'fbUhj Y'mmci 'a UmUddfcUW'U'fY'Yj Ubh
cf[Ub]gU]cb'hc'Udd'mZcf'Ub']bH'fbg\]d'"Df]cf'hc'gYY_]b['Ub']bH'fbg\]d'z'mci 'g\ci 'X'UH'YbX'Ub']bH'fbg\]d
]bZ'fa Uh]cb'gYgg]cb'fi b'Vm'hY'GVXcc`cZ\hY'5f'g'UbX'A YX]U"

Hc'VY'Y'] []VY'Zcf'h]g'Wci fgYz'mci 'a i gh\Uj Y'U'a]b]a i a 'K 5A 'cZ*) "

7 ci fgY'@YUfb]b['Ci hWca Yg

%` \Uj Y [U]bYX'YI dYf]YbW'cZ]bXi gHfmdfcW'ggYg'UbX'dfUW]W'g
&" Udd'mh'YcfY]W'WcbW'drg'UbX'dfUW]W'g_]`g [U]bYX']b'hY'dfc[fUa 'hc'fYU'!k cf'X'WcbhYI hg
' " \Uj Y'Yb\UbW'X'hY]f'WUdUW]mZcf']bXYdYbXYbhYb[U[Ya Ybhk]h']bXi gHfmdfcj]XYfg

HYUW]b['GhfUH[]Yg`

H\]g'Wci fgY'\Ug'bc'Z'fa U'hYUW]b['Wca dcbYbh''

5ggYgga Ybh

5ggYgga YbhHUg_g`

| | | | |
|---------------------|----------|-----------------------------|---------------------------------------|
| 5ggYgga YbhHUg_ | K Y][\h | 8i Y'8UHŸ | Gh XYbh@YUfb]b[Ci hŸa Yg'5ggYggYX |
| 7 f]h]WU`F YZYW]cb` |) \$i | &�/%#&\$%- '\$) . \$\$'DA | %ž& |
| K cf_'9j]XYbW` |) \$i | &�/%#&\$%- '\$) . \$\$'DA | %ž |

5ggYgga Ybh8YHU]`g

- 7ca d`Yh]cb`cZU`a]b]a i a `cZ%\$\$`\ci fg`cZd`UW`a Ybh
- Gi Va]gg]cbg`cZUggYgga YbhiUg_g`%/`&`XYa cbghfUh]b[`U`gYf]ci g`UthYa dhic`Ubgk Yf`hY`hUg_ fYei]fYa Ybthg
- Gi Va]gg]cb`cZVch`h`hY`\cghiUbX`ghi XYbhZYXVUW`Zcfa g

Gi Va]gg]cb`bchYg.HUg_g`%UbX`&`UfY`tc`VY`gi Va]hYX`]b`U`g]b[`Y`XcW`a Ybhic`A`ccXY"

F Ygci fWg

DfYgWf]VYX`F Ygci fWg`

H\YfY`UfY`bc`dfYgWf]VYX`fYgci fWg`Zcf`h\]g`Wci fgY"

F YWca a YbXYX`F Ygci fWg

7ci fgY`9j U`i Uh]cb`UbX`8Yj Y`cda Ybh

K Y`fYgdcX`hc`ZYXVUW`fYWf]j YX`j]U`X]fYWhYa U]`hc`h\Y`7ci fgY`7cbj Ybcf`UbX`h\Y`K`@| b]ž`UbX`
]bZcf`a Uh]cb`dfcj]XYX`]b`h\Y`gh`XYbhUbX`\cghZYXVUW`Zcf`a`g"

K Y`\cdY`mci`Yb`emci`f`]bhYfbg\]d`

Gi Va]gg]cb`cZ5ggYgga YbhHUg_g

Gi Va]gg]cb`cZ5ggYgga YbhHUg_g

Hi fb]h]b`Gi Va]gg]cb

≠mci`YbWci bHYf`U`dfcV`Ya`k`Yb`U`HYa`dh]b[`hc`gi`Va`]hmc`i`f`Ugg][`ba`Ybh`h`fci`[`\`Hi`fb]h]b`z`d`YUgY`
HY`Yd`cbY`9I`HYfbU`Gi`ddcfhcb`-`,`),`'`,`'`,`%cf`Ya`U]`h`Ya`cb`YI`HYfbU`HY`hgi`ddcfh4`i`bgk`"YXi`"Ui`"Gi`ddcfh`
`ci`fg`UfY`,`.\$\$Ua`-`%\$.\$\$da`cb`k`YY`XUmg`UbX`-`.\$\$Ua`-`,`).\$\$da`cb`k`YY`YbXg`fI`*)`XUmg`U`mY`UfL`≠mci`
UfY`i`bUV`Y`hc`gi`Va`]hmc`i`f`Ugg][`ba`YbhXi`Y`hc`U`ZU`hik`]h`Hi`fb]h]b`mci`a`Um`Udd`mi`Zc`f`Ub`YI`HYbg]cb`z`Vi`hmc`i`
a`i`ghfY`hU]b`mci`f`h]W`Yhbi`a`VYf`Zca`9I`HYfbU`Gi`ddcfhfU`cb[`k`]h`Ubmc`h`Yf`fY`Yj`UbhXcW`a`Yb`hg`L`hc`
]bWi`XY`Ug`Yj`]XYbW`hc`gi`ddcfhmc`i`f`YI`HYbg]cb`Udd`]W]h]cb`≠mci`Ya`U]`9I`HYfbU`Gi`ddcfhmc`i`k`]`

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 gž`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[Ygž`UfhUbX`XYg][b`dfc`YWgž`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`U`b[]b[`U`ZYk`k cfXg`UbX`d`fUgYg`k`Y`a cghmifYU]b]b[`hY`cf][]bU`
ghfi W`fY`UbX`#`f`dfc[fYgg]cb`cZ]XYUg`cZ`hY`cf][]bU`ž`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[Y`hYf`ei chYg`UbX`dUfUd`fUgYg`]bhc`U`bYk`k \c`Yž`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`
]bWi XYg`dfcj]X]b[`mci f`k cf_]hc`UbchYf`gh`XYbhVYZc`fY`hY`Xi Y`XUHYž`cf`Zc`f`hY`di fdcgY`cZ`hY`a

- i bXYfghUbx'mci f'f][\hg'UbX'fYgdcbg]V]h]Yg'Ug'U'gh XYbhUhl BGK
- VY'Uk UfY'cZd'U[]Uf]ga ž'Wc'dmf][\hž' BGK 'Gh XYbh7cXY'cZ7cbXi W'Ubx'5W'W'dhUV'Y'I gY'cZ I BGK '⇒H'F'Ygci f'W'g'Dc`]W'h
- VY'Uk UfY'cZ'Y'ghUbxUfXg'cZVY\Uj]ci f'YI dY'W'X'cZYj Yfmcby`]b'h'Y'I BGK 'W'a a i b]m
- 'cW'W'h'gYfj]W'g'UbX']bZ'fa U]cb'UVci hl BGK 'UbX'I BGK '@]VfUfm

Gca Y'cZ'Y'gY'UfY'Ug'k]''VY'ZJa]]Uf'hc'mci ž'c'h'Y'fg'k]''VY'bYk "; U]b]b['U'gc`]X'i bXYfghUbx]b['cZU''h'Y fY'U'h'X'UgdY'W'g'cZ9@-G9'k]''\Y'd'mci 'a U_Y'h'Y'a cgh'cZ'mci f'gh X]Yg'Uhl BGK ""

[\h'hd.##gi V'Y'W'i \]X'Yg" \]VfUfm'i bgk "YXi "Ui #' \]gY#UVci h' \]gY](#)

5 WUXYa]WbZcfa Uhcb`

: cf`YggYbh]U`gh XYbh]bZcfa Uhcb`fY`Uh]b[`rc.

- fYei Yghg`Zcf`YI h`bg]cb/
- `Uh`gi Va]gg]cbg`[i]XY`]bYg/
- fYj]Yk `cZa Uf_g/
- I BGK `<YU`h`UbX`GUZY`midc`]WYg/
- YI Ua]bUh]cb`dfcVWXi fYg/
- gdYWU`Vc]bg]XYfUh]cb`]b`+ < g]X\$