



# ARTS2452

7 \ ] b Y g Y ' 9 b [ ` ] g \ ` H f U b g ` U h ] c b

HYfa ` C b Y ` # ` & \$ %

|  |  |  |  |  |
|--|--|--|--|--|
|  |  |  |  |  |
|  |  |  |  |  |

7ci fgY'8YHJ]`g

7fYX]hDc]bHg`\*`

Gi a a UfmicZ\hY'7ci fgY

Gi VYWh5fYU. '5Z[ WēWE fgV[Wē

H\]g`Wci fgY`YI d`c`fYg`fYW`bhfUbg`Uhcb`h`Ycf]Yg`UbX`a`YhcXc`c[ ]YgžUg`k`Y`Ug`hY`fc`Y`cZhfUbg`Uhc fg`]b  
a`cXYfb`a`i`h!W`h`fU`gcWYhYg`"Mci`k`]`YUfb`\ck`hc`hfUbg`UH`VYrk`YYb`7`\]bYgY`UbX`9b[ ]g\ž`i`g]b[  
X]ZYfYbhfUbg`Uhcb`h`Ycf]Yg`UbX`h`W`b]ei`Ygž`UbX`\ck`hc`XYj`Y`cd`]bX]j`]Xi`U`]gYX`gfUH[ ]Yg`Zcf`mci`f  
hfUbg`Uhcb`h`UhfUd`]bhc`mci`f`ck`b`WdUW]mUbX`gfYb[ h`UbX`Z`fh`Yf`YI`dUbX`]h`Mci`k`]`XYj`Y`cd`UbX`\cbY  
mci`f`g\_]`g`]b`hUW\_]b[ `X]ZYfYbhgmiYg`cZhfUbg`Uhcb`h`fci`[ \]j`Uf]ci`g`\UbXg!cb`hfUbg`Uhcb`YI`YfW]gYg"

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

%` ]XYbh]ZmfYW`bhXYj`Y`cda`YbHg`]b`hfUbg`Uhcb`h`Ycf]Yg`UbX`dfUW]Wg`UbX`YI`d`U]b`Uh`YUghcbY`VUg]W  
hfUbg`Uhcb`a`cXY`#gmiY  
&"`UggYgg`bYk`h`W`b]ei`Yg`UbX`h`W`bc`c[ ]Yg`Uj`U]UV`Y`Zcf`9b[ ]g\`UbX`7`\]bYgY`hfUbg`Uhcb  
'`" hUW`Y`hfUbg`Uhcb`]b`U`dfcV`Ya`!VUgYXžcV`YW]j`Y!cf]YbhYX`a`UbbYfž`Ya`d`cm]b[ `WcbW`dhgž  
h`fa`]bc`c[ mUbX`c[ ]W]-` \UmfYWbg`Uhcb`]b`cca`Yg



@Yb[ h. ' \$!( ) 'a ]bi h'g'YUWX

8YhU]`g. 'Gh XYb'g'Wca d'YH' ( ' ]b!WUgg'hfUbg'Uh]cb'YI YfW]gYg": YYXVUW\_j ]U' ]bX]j ]Xi U'`Wca a Yb'g'UbX' ]b!  
WUgg'X]gW gg]cb"

5ggYgga Ybh' . F YgYUfWX 'Dfc YWw

GhUfhXUH. 'Bch5dd']WV'Y

8YhU]`g. 'Gh XYb'g'k ]`Wca d'YH' U'gc`c'W]h]WU'`fYj ]Yk 'fUddfcl "'%) \$\$ '9b[ ' ]g\`k cfXg'cf'% \$\$ '7\` ]bYgY  
W\UfUW'Yfg'c'F 'U'dU]f# fci d'dfYgYb'U]cb'fWU", 'a ]bi h'g'dYf'dYfgcb'": YYXVUW\_j ]U' ]bX]j ]Xi U'`Wca a Yb'g'  
cf' ]b!WUgg'X]gW gg]cb"

5ggYgga Ybh( . hYg'g

GhUfhXUH. 'Bch5dd']WV'Y

@Yb[ h. '%' )!&' \ci fg'YUWX

8YhU]`g. 'Gh XYb'g'k ]`Wca d'YH' U'a ]X!h'Yfa 'h'ghf&\$i 'U'UbX' U'Z]bU'`h'ghf&\$i '": YYXVUW`cb'a ]X!h'Yfa 'h'gh  
j ]U' ]bX]j ]Xi U'`Wca a Yb'g'UbX' ]b!WUgg'X]gW gg]cb/Gh XYb'g'k ]`fYW' ]j Y'U'a Uf\_`Zcf'h'Y' Z]bU'`h'ghUbX' WU  
Wcbgi 'h'h'Y'`YW' h'f'Zcf'Z f'h'Yf'Z'YXVUW`"





F Ygci fWg

DfYgWf]VYX`F Ygci fWg`

5`fYUX]b[ `a Uhf]U`g`UfY`Uj U]UV`Y`]b`A ccX`Y"

F YWca a YbXYX`F Ygci fWg

6cc\_g

A U`a \_`A fž? ]fghYb/K ]bX`Yž? Yj ]bžFZWA j XadV : S` VTaa] aXfdS` e`Sf[a` E fgV[MežCI ZcFX`I b]j Yfg]m  
DfYggž&\$\$%"`f9Vcc\_`Uj U]UV`Y`Uhi BGK ``]VfUfnt

A ]`bž7 Ufa Yb`YX""`FZWDagf`WYWZS` VTaa] aXfdS` e`Sf[a` efgV[Mež<cVc\_Yb.`HUmcf`UbX` : fUbW]gž&\$\$% "  
f9Vcc\_`Uj U]UV`Y`Uhi BGK ``]VfUfnt

A i bXUmž>YfYa m` :` fdaVgU[` Y fdS` e`Sf[a` efgV[Me, fZVad[Me S` V Sbb [USf[a` ež: ci fh`YX]hcb"žCI ZcFX`  
HUmcf`/` : fUbW]gž&\$\$%"`f9Vcc\_`Uj U]UV`Y`Uhi BGK ``]VfUfnt

Dc`UfXž8Uj ]X/7`UbžG]b!k U]`3` W UkU`abSW[S aXfdS` e`Sf[a` , 5Z[` WeWZ7` Y`eZt 7` Y`eZž5Z[` WeW %gh  
dUdYfVUW`YX"ž<cb[ `? cb[ .`7`bYgY`I b]j Yfg]mDfYggž&\$\$%

F cV]bgcbž8ci [ `Ug"4WJa\_ [ `Y S fdS` e`Sfad S` [ fdaVgUf[a` fa fZWfZWack S` V bdsUf[UWaXfdS` e`Sf[a` ž' fX  
YX"žA ]hcb`DUf\_ž5V]b[ XcbžCI cb/BYk`Mcf\_` : F ci hYX[ Yž&\$\$%"`f9Vcc\_`Uj U]UV`Y`Uhi BGK ``]VfUfnt

7`Ybž<cb[ k Y]ž: S` K[ `Y XS` k[ \ UZg` 9ggYbh]U`hfUbg`Uh]cb`Zca`7`bYgY`]bfc`9b[ `]g\ž  
G\Ub[ \U].`G\Ub[ \U]k U]m` ]Uc`m` WXi`VUb`g\Y` ž%- , "

; i cžN\i n\Ub[ /@žE ]b[ g\Yb[ "K[ `Y : S` Zg k[eZ[ ka` Y \Sa UZW Y , j [g V[ `Y TW`  
`5`dfUW]WU`Wci fgY`]b`hfUbg`Uh]cb`VYtk`YYb`9b[ `]g\`UbX`7`bYgYžK i WXUb[ ` : K i \Ub`XU`I i Y`WXi  
VUb`g\Y/` ž%- - \*

>ci fbUg.

? WfS, FdS` e`Sfaderi <agd S? WfS, FdS` e`Sfaderi <agd S^

F SdYwf, ;` fWd Sf[a` S^<agd S^aXfdS` e`Sf[a` E fgV[Me

5Z[` WeWFdS` e`Sfaderi <agd S^

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

H\]g`Wci fgY`k ]`VY`Zcfa U`mYj U`i UHYX`hfc i [ \`A m9l dYf]YbW"



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`ihk`]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`hgL`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 hW`YX]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`i 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 hW`YX]h`UbX`hc`  
d]YW]b[ `hc[ YhYf`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 bXYfghUjX'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'UjX'5W'W'dhUV'Y'I gY'cZ  
I BGK '⇒H'F'Ygci f'W'g'Dc' ]W'h
- VY'Uk UfY'cZ'U'g'U'X'U'f'X'g'c'Z'V'Y'\U'j ]ci f'Y'I d'Y'W'X'c'Z'Y'j Y'f'm'c'b'Y' ]b'U'Y'I BGK 'W'c'a'a'i'b]m
- 'c'W'U'h'g'Y'f'j ]W'g'U'j'X' ]b'Z'c'f'a U'h'c'b'U'V'c'i h'l BGK 'U'j'X'I BGK '@]V'f'U'f'm

Gca Y'cZ'U'g'Y'U'f'Y'U'g'k ]''V'Y'Z'J'a ] ]U'f'U'c'mci ž'c'h'Y'f'g'k ]''V'Y'b'Y'k "; U]b]b[ 'U'g'c'X'i bXYfghUjX]b[ 'cZU''U'Y  
f'Y'U'h'X'U'g'd'Y'W'g'c'Z'9@-G'9'k ]''\Y'd'mci 'a U\_Y'U'Y'a c'g'h'c'Z'mci f'g'h X]Y'g'U'hl BGK ""

[\h'c'.#g'i V'Y'W'f'i \]X'Y'g'' \]V'f'U'f'm'i b'g'k "Y'X'i "U'i #' \]g'Y'#U'V'c'i h'Y' \]g'Y](#)

