

# **ARTS2570**

⇒hYfa YX]UhY GdUb]g\ 5

HYfa 'C bY''##'&\$%

# 7ci fgY<sup>·</sup>Cj Yfj ]Yk

# GHJZZ:7cbHJWh:8YHJ]`g`

'7cbj Ybcfg'

B Ua Y	9a U]`	5j U]`UV]`] <b>m</b>	@cWUh]cb	D\cbY
< YbUf`J ]WYbHY! 7 f]gHi VU`	\"j]\WbhY\Wf]ghcVU`4 ibgk"YXi"Ui	Hi YgXUmg'%" \$'hc &"" \$da 'cf'Vm		

# 7ci fgY 8YHJ] g

7 fYX]hDc]bhg \* \*

## Gi a a UfmcZh\Y 7ci fgY

 $GiVYWh5fYU.EbS`[eZS`V>Sf[`3_Wd[US`EfgV[We]]$ 

K ]h\ a cfY h\ Ub'' ' a ]``]cb`GdUb]g\`gdYU\_Yfg']b'h\ Y`I G5`U`cbYž'< ]gdUb]WW\`hi fY`]g`]bWfYUg]b[`m g][ b]Z\WUbh'`H\ ]g`Wci fgY``Yb\ UbW'g`mci f`UV]`]mihc`UddfYV\JUhY`h\ Y`Wca d`YI ]micZ< ]gdUb]WW\`hi fY`UWfcgg hk c`Wcbh]bYbhg"'H\ Y`Wci fgY`]g`UVci h`YUfb]b[`hc`gdYU\_ž'fYUX`UbX`k f]hY`GdUb]g\`Vmi g]b[`h\ Y`a YX]i a `cZ W\`hi fY"`J cWUVi `UfmUbX`[ fUa a Uh]WU``ghfi Whi fYg`UfY`dfYgYbhYX`]b`h\ Y`WcbhYI hcZW\`hi fU``mfY`Yj Ubhhcd]Wg" Hcd]Wg`a Um]bWi XY.``Ub[ i U[ Y`UbX`Wca a i b]WUh]cbž'VY`]YZgmghYa gžUbX`h\ Y`Ybj ]fcba Ybh'

H\Y``Ub[i U[Y`cZ]bglfi Wf]cb`]g`GdUb]g\"`K Y`UfY`h\Y`Z]fghi b]j Yfg]lmi]b`5i glfU`]U`i g]b[`h\Y`]bbcj Uf]j Y`cb`]bY WcUW\]b[`dfc[fUa`k\]W\`cZYfg`mci `U`i b]ei Y`cddcfh b]lmihc`k cf\_`ci hg]XY`cZWUgg`k]h\`U`dYfgcbU`ž'bUf]j Y! gdYU\_Yf``Ub[i U[Y`WcUW\`]b`U`fYU``h]a Yžcb`]bY``YUfb]b[`Ybj]fcba Ybf'`K Y`\cdY`h\Uhih\]g`i b]ei Y`dYfgcbU`YI dYf]YbWY`k]```VY`lfi`miYb^cmUV`Y`UbX`k]``a cfj UhY`mci `hc`Wcbf]b[`GdUb]g\"

#### 7 ci fqY @YUfb]b[ 'Ci hMca Yq

- &" DfcXi Wrg]a d`YžWc\YfYbh'hYl hg`fcfU``UbX'k f]hhYbŁcb`Wca a cb'hcd]Wg`cf`UfYUg`cZdYfgcbU``]bhYfYgh'
- ' "8YgWf]VY YI dYf]YbWg UbX Yj Ybhg UbX dfcj ]XY fYUgcbg cf YI d`UbUh]cbg Zcf cd]b]cbg UbX d`Ubg
- ("8]gh]b[i]g\`g][b]Z]WUbhiX]ZZYfYbWYg`VYhk YYb`gca Y`W ghca gž`Uhh]hi XYg`cf`VY`]YZg`dfYj U`Ybh`]b`h\Y < ]gdUb]WgdYU\_]b[`Wca a i b]hmUbX`h\cgY`cZh\Y]f`ck b"
- )" I gY glfUhY[]Yg hc WccdYfUhY YZZYWhj Y mk ]h\ ch\Yf a Ya VYfg cZh\Y [fcid"

## HYUWX]b[ 'GhfUhY[]Yq'

FUNCOUY Zcfh\Y]bWiq]cbcZWcbNYbhUbXnYUWX]b[ UddfcUWX

@Ub[i U[Yg'UfY'VYgh`YUfbYX'h\fci [\`i gY'cZh\Y``Ub[i U[Y"'K Y'dfcj]XYžh\YfYZcfYžcddcfhi b]h]Yg'Zcf ghi XYbhg'hc'i gY'h\Y``Ub[i U[Y'UbX'k Y'Xc'gc']b'U'a YUb]b[Z\``k Um''H\Uh]gžk Y'i gY'U'h\Ya Uh]WUddfcUW\'hc h\Y'cf[Ub]nUh]cb'cZWci fgY'a UhYf]U'g"'H\Y'hcd]Wg'Wcj YfYX'fYdfYgYbh'W ffYbh']ggi Yg']b'GdUb]g\!gdYU\_]b[Wci bhf]Yg"

 $\label{thm:condition} $$H^g'' a d`cmg'ghi XYbhi WbhYfYX``YUfb]b[ 'Ug'h\Y'VUg]g'Zcf']hg']bghfi Wh]cbU``XYg][ b'UbX'Ya d\Ug]nYg h\Y']a dcfhUbW'cZUWhj Y``YUfb]b[ "$ 

H\Y'hYUWX]b[']b'h\]g'Wci fgY']g'V'YbXYX.'cb`]bY'UbX']b'WUgg'UWh]j ]h]Yg''''

 $HY^{"}Ub[iU[Y^{"}cZ]bghfiWh]cb^{"}g^{"}GdUb]gY^{"}$ 

: fca 'h\Y'; i ]XY`]bYg`cb`@YUfb]b[ 'h\Uh\±bZcfa 'HYUW\]b[ 'ghi XYbhg`Wca a i b]\WhY`]bZcfa Uh]cbž]XYUg`UbX Uf[ i a Ybhg`Vch\ cfU``mUbX`]b`k f]h]b[ "'H\Ym[ Uh\Yf`UbX`dfcWrgg`]bZcfa Uh]cb`Zfca 'U'j Uf]YhmcZdUdYfž Ui X]cj ]gi U``UbX`Y`YWfcb]Wgci f\Wg"'H\Ymi gY`\H\Ymi gY`\H`YZZYWf]j Y`mVch\ 'Ug'U'a YUbg'cZ\Wca a i b]\WJh]cb'UbX`Ug'Ub U]X`hc``YUfb]b[ 'Ug'k Y```Ug'XYa cbghfUhY`gca Y`UV]`]hmUg'Ub']bXYdYbXYbh``YUfbYf"

# 5ggYgga Ybh

 $H\[g^*]g^*\ T\ c7\ Wci\ fgYzYei\ ]j\ UYbhY\ hc^*\%)\ \$\ \ci\ fg'cZghi\ Xm'Uh'\ca\ Y\ UbX^]bWUggz'mci\ g\ci\ X'a\ U\_Y'gi\ fY'hc\ U``cWUhY'h]a\ Y'Zcf'h\]g'Wci\ fgY''$ 

Ghi XYbhgʻUfYʻYl dYWYXʻhcʻWca Yʻhcʻ: UWYʻhcʻ: UWYʻnyWhi fYgʻUbXʻhi hcf]UʻgʻdfYdUfYX"ʻDʻYUgYʻWca dʻYhYʻXY k YY\_`mUWIj ]YgʻVYZcfYʻYVNi fYʻUbXʻh\YʻUWIj ]hJYgʻVYZcfYʻhi hcf]UʻgʻflGYYʻA ccX`YʻZcfʻZ fh\Yf`XYhU]`YgŁ"

# 5ggYgga Ybh'HUg\_g'

5 g <b>\$ \f</b> (ggg) & Y \f \b (g) \f \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	K Y][ \h	8iY <sup>.</sup> 8UhY	Gri XYbri@YUfb]b[

• ) 'gYgg]cbg'a ]b]a i b'hc'VY'Wca d'YhYX"

: ]bU`cfU`Vm'Uddc]bha Ybh'

5ggYgga Ybh' . '& +b!7 `Ugg HYghg

GhUfhXUhY. Bch5dd`]WUV`Y

@Yb[h\.'\*\$'a]bihYg

8YHJ]`g. `HYghDUfh'%`]b`K YY\_`) ž`DUfh'&`]b`K YY\_`'%\$`fHYgh]b[`j cWUVi `Ufmž'[fUa a Ufž`W`hi fYž``]ghYb]b[ž`fYUX]b[ž`k f]h]b[Ł"``) \$!\*\$`a ]bi hYg": YYXVUW\_`dfcj ]XYX`j ]U`F i Vf]Wgž'k f]hhYb`Wca a Ybhg`UbX`]b! WUgg`ZYYXVUW\_"

5XX]h]cbU`XYhU]`g.

HYgh%"UbX"HYgh&"\Ug"hk c "dUfhg"

• DUffn%; fUa a Ufžij cWUVžfYUX]b[ 'Wca dfY\Ybg]cbžYHW'Cb`]bY Ei]n

9

# F Ygci fWyg

### DfYgWf]VYX F Ygci fWYg

Cb`]bY'7cUW\]b[. di fV\\Ug]b['Ub\X'fY[]gh\f]b['h\fci [\@]b[i Ua Y\f]b['k Y\Ug]h\'

- %"; chc \hdg.#k k k "]b[i Ua YYh]b["Wca #Y[]ghfc"d\d
- &" GY`YWhici fii b]j Yfg]lmžigY`YWhimci fi]bghfi Whcf#WUggigYWh]cbžYbhYfimci fidYfgcbU`i]bZcfa Uh]cbiUbX gY`YWhimci fidUma Ybhicdh]cb.
- ' " 7\ccgY`mci f`gYgg]cb`Zfca 'h\Y`Uj U]`UV`Y`gYgg]cb`h]a Yg"`Mci f`gYgg]cb`k]```VY`cb`h\Y`gUa Y`XUmUbX Uh'h\Y`qUa Y`ha Y`i b`Ygg`mci 'W\Ub[Y`]h"
- ("5hh\Y'YbX'cZh\Y'fY[]ghfUh]cb'dfcWrggž'mci k]``fYWr]jY'U'WbbZfa Uh]cb'Ya U]``k]h\'mci f'WbUW\]b[gYgg]cb'U[YbXU"'Mci 'WUb'gUjY'h\Y'U[YbXU''Ug'U'XcW'a Ybhcb'mci f'XYg\_hcd"'D`YUgY'W\YW\_'U```h\Y ]bZc'`c[']b'mci f'Gh XYbhfig'DcfhU`'hcc.'[c'hc'\hdg.#k k k']b[i Ua YYh]b["Wca\_'UbX'W]W\_'cb "Gh XYbhfhc'`c[']b"'I5bm]ggi Yž'h\Y'gh XYbhg\ci 'X'WbhUWigi ddcfh4 `]b[i Ua YYh]b["Wca\_'fh\]g']g'h\Y ZJghYghUbX'h\Y'a cghYZ]W]Ybhk Umhc'\Y`d'mci Ł"
- ) "D`YUgY`bchY`. 'Cb`]bY`7cUW\]b[ 'gYgg]cbg`Zfca 'k YY\_'' 'hc'k YY\_''%%

#### FYWca a YbXYX HYI hVcc ...

• ~ E i Å 'hY 'dUfYVW'3/'A W fUk!<] \cdot\ '\ ' \fix 'YX]h|cb" \cdot\ \$\\$) '

#### FYWca a YbXYX FYgci fW/g

`DfUWI)WY`A U\_Yg`DYfZYWh`±bhYfa YX]UhY`GdUb]g\`; fUa a Uf.`K ]h\`%\*\$`9I YfW]gYg`fDfUWh]WY`A U\_Yg DYfZYWh`GYf]YgŁ`DUdYfVUW\_` `C Whc VYf`&ž`&\$%&

Vm; ]`XU'B]ggYbVYf[

H\]g`Wci fgY`i gYg`A ccX`Y`Ug`U`fYgci fWY`WbfY`k\YfY`ghi XYbhg`Wbb`UWWgg`U`k]XY`gY`YWfjcb`cZa UhYf]U`g gdYWJU``mXYg][ bYX`hc`XYj Y`cd``Ub[i U[Y`g\_]``g`UbX`W``hi fY"`A ccX`Y`dfcj ]XYg`U`Wca dfY\Ybg]j Y Ybj ]fcba Ybhhc`Yl d`cfY``Ub[i U[Y`UbX`W``hi fY`i g]b[`U`XUhU`VUgY`cZ`Ub[i U[Y`]bZcfa Uhjcb`WcbhU]b]b[ fYUX]b[`hYl hgžij ]XYcgžgcb[ gž`[ fUa a Uf`dfUWfJWY`UbX`U``]VfUfmcZ]bhYfbYhfYgci fWYg"`: cf`A ccX`Y a UhYf]U`gž`YgdYWJU``mUi X]c`a UhYf]U`gži gY`h\Y``UhYghj Yfg]cb`cZA cn]``U`: \div 9: CL`fA UWV`K]bXck g\!'`\div mci UfY`i g]b[`ch\Yf`Vfck gYfg`mci a ][\hYl dYf]YbWY`Wca dUhJV]]mmdfcV`Ya g"`fGdYWJU``mk]h\\div bYfbYh9l d`cfYfL Hc``]ghYb`cf`gYY`h\Y`Ui X]c`-j ]gi U``a UhYf]U``Z]`Yg`Zfca 'A ccX`Yž]Zmci 'UfY`U`i gYf`cZK]bXck g`ž`mci '`bYYX`h\Y``UhYghj Yfg]cb`cZK]bXck g`X`mci '`bYYX`h\Y``UhYghj Yfg]cb`cZK]bXck g`X`mci '`bYYX`h\Y``UhYghj Yfg]cb`cZ`E i ]W\_f]a Y" fl i ff\Yf`]bglfi Wf]cbg`]b`A ccX`YŁ

## 7ci fgY 9j U`i Uhcb UbX 8Yj Y`cda Ybh

7 ci fgYgʻUfYʻdYf]cX]WU`mfYj ]Yk YX`UbXʻghi XYbhg'ZYYXVUW\_`]gʻi gYX`hc`]a dfcj Y`h\Ya "`

: YYXVUW\_`]g`[ Uh\YfYX`Zfca `gh XYbhg`i g]b[ `a m9I dYf]YbWY"`\dangle i]g`YbWci fU[ YX`gh XYbhg`Wca d`YhY`h\Y]f qi fi Ymg`VmUVWYgq]b[ `h\Y`dYfqcbU`]qYX`k YV``]b\_`j ]U'h\Y`A ccXY`Wci fqY`q]hY"

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Gi Va ]gg]cb cZ5ggYgga YbhHUg\_g

Gi Va ]gg]cb cZ5ggYgga YbhHUg\_g

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

\_Zmci YbWci bhYf'U'dfcV`Ya 'k \Yb'UhYa dhJb[ 'hc'gi Va ]hmci f'Ugg][ ba Ybhh\fci [ \ 'Hi fb]hJbž'd`YUgY
hY`Yd\cbY'9| hYfbU``Gi ddcfhcb'-', ) '' ' ' %cf'Ya U]``h\Ya 'cb'Y! 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'fl \*) 'XUmg'U'mYUft'' =Zmci
UfY'i bUV`Y'hc'gi Va ]hmci f'Ugg][ ba YbhXi Y'hc'U'ZUi 'hk ]h\ 'Hi fb]hJb'mci 'a Um'Udd'mZcf'Ub'Y! hYbg]cbžVi hmci
a i ghfYhU]b'mci f'hJW\_Yhbi a VYf'Zfca '9! hYfbU`'Gi ddcfhfU'cb[ 'k ]h\ 'Ubmch\Yf'fY`Yj UbhXcW a Ybhgt'hc
]bWi XY'Ug'Yj ]XYbW' 'hc'gi ddcfhmci f'Y! hYbg]cb'Udd`]WUhJcb'' =Zmci 'Ya U]`'9! hYfbU`'Gi ddcfhmci 'k ]``

### 5 WUXYa | W < cbYghmUbX D`U[ ]Uf]ga

D`U[]Uf]ga i]gii g]b[ih\Yik cfXgicfi]XYUgicZch\YfgiUbXidfYgYbh]b[ih\Ya iUgimci fick b"i±iWUbihU\_Yia Ubm Zcfa qžZfca iXYi]VYfUhYiW\YUh|b[ihciUVW]XYbhU`mWcdm]b[iZfca iUigci fWYik]h\ci hUW\_bck iYX[Ya Ybh'i

IBGK '[fci dg'd'U[]Uf]ga ']bhc'h\Y'Zc``ck]b[ 'WUhY[cf]Yg.

7 cdm]b[.'i g]b['h\Y'gUa Y'cf'j Yfmg]a]`Uf'k cfXg'hc'h\Y'cf][]bU`hYl h'cf']XYU'k]h\ci h'UW\_bck `YX[]b['h\Y gci fW'cf'i g]b['ei chUh]cb'a Uf\_g"'H\]g'U`gc'Udd`]Yg'hc']a U[Ygž'Ufh'UbX'XYg][b'dfcYWhgž'Ug'k Y``'Ug dfYgYbhUh]cbg'k \YfY'gca YcbY'dfYgYbhg'Ubch\Yf'g']XYUg'cf'k cfXg'k]h\ci h'WfYX]h'

⇒ Uddfcdf]UhY 'dUfUd\fUg]b[...7\Ub[]b[ 'U'ZYk 'k cfXg'UbX'd\fUgYg'k \]'Y 'a cghmfYhJ]b]b[ 'h\Y'cf][]bU` ghfi Wh fY 'UbX#cf'dfc[fYgg]cb'cZ]XYUg'cZh\Y'cf][]bU'žUbX']bZcfa Uh]cb'k ]h\ci hUW\_bck `YX[Ya Ybh'H\]g'U`gc Udd`]Yg']b'dfYgYbhUh]cbg'k \YfY'gca YcbY'dUfUd\fUgYg'Ubch\Yf'g']XYUg'cf'k cfXg'k ]h\ci hWfYX]hUbX'hc d]YW]b[ 'hc[Yh\Yf'ei chYg'UbX'dUfUd\fUgYg']bhc'U'bYk 'k \c`Yžk]h\ci hUddfcdf]UhY'fYZYfYbW]b[ "

7 c``i g]cb. 'k cf\_]b[ 'k ]th 'cth Yfg'Vi hidUgg]b[ 'cZZth Y '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\_'thc'Ubcth Yf'ghi XYbh'VYZcfY'th Y'Xi Y'XUHYZcf'Zcf'th Y'di fdcgY'cZth Ya

- i bXYfgfUbX mci f'f][\hg'UbX'fYgdcbg]V]`]hJYg'Ug'U'gh XYbhUhl BGK
- VY`Uk UfY`cZd`U[]Uf]ga ž`Wcdmf][\hzil BGK `Gh XYbh7cXY`cZ7cbXi WhUbX`5VWWdhUv`Y`I gY`cZ I BGK `=\forall H`F Ygci f\W\g`Dc`]\wh
- VY 'Uk UfY 'cZh\Y 'ghUbXUfXg 'cZVY\Uj ]ci f'Yl dYWYX 'cZYj YfmcbY ']b 'h\Y 'l BGK 'Wca a i b]hm
- `cWUHY 'gYfj ]WYg'UbX ']bZcfa UH]cb'UVci hI BGK 'UbX'I BGK '@]VfUfm

Gca Y'cZh\YgY'UfYUg'k]``VY'ZJa]`]Uf'hc'mci ž'ch\Yfg'k]``VY'bYk"'; U]b]b['U'gc`]X'i bXYfgHJbX]b['cZU``h\YfY`UhYX'UgdYWng'cZ9@+69'k]``\Y`d'mci 'a U\_Y'h\Y'a cghicZmci f'ghi X]Yg'UhI BGK "'\\hd.##qi VYWfi |XYg"`]VfUfm'i bqk "YXi "Ui #\`]qY#JVci hY`]qY

# 5 WUXYa ]W±bZcfa Uhjcb

: cf'YggYbhJU`gh XYbh]bZcfa UhJcb'fY`UhJb['hc.

• fYei YghgʻZcfʻYl hYbg]cb/