

# **ARTS2212**

Gcih\YUgh'5g]U

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

1

# 7ci fgY<sup>·</sup>8YHJ]`g

#### 7 fYX]hDc]bhg\*\*\*

#### Gi a a UfmcZhXY7ci fgY

GiVYWhi5fYU.3e[S`EfgV[We

H\]g'WcifgY'WUb'U`gc'VY'ghiX]YX']b'h\Y'Zc``ck]b['gdYW]U`]gUh]cb.': [efacki;`Va`We[S`EfgV[We

H\Y Wci fgY ZcW gYg cb a cXYfb Gci I\YUgh5g]U g]bW I\YYbX cZh Y Wc cb]U dYf]cX i bh] 'I\Y'dfYgYbhXUm' €ghYUX cZh Y IfUX]h]cbU ]bhYfdfYhUh]cbžk \]W gYYg U IfYbX ick UfXg Ui I\cf]HUf]Ub]ga žk Y g\U``fYUX \]ghcfmUbX dc]h]Wg ]b WcbhYa dcfUfmGci I\YUgh5g]U Ug Ub i bfYgc j YX WcbZ]WhYtk YYb ik c Wca dYh]b[ 'gmghYa g`!! X]WUhcfg\]d UbX XYa cWfUWm' H\Y fY[ ]a Yg cZA UfWcgžGi \UfhcžA U\Uh\]fž@YY ? i Ub MYk žI\Y'? \a Yf F ci [ Yž6i fa U i bXYf I\Y'HUha UXUk 'fUfa mtžI\Y'a cbUfWk mUbX'a ]`]HUfm]b H\U]'UbXž UbX J ]YhbUa 'g]bW %, - 'k ]``dfcj ]XY gca Y WUgY ghi X]Yg I\fci [ \`k \]W ic 'UbU'mgY Gci I\YUgh5g]Ub dc`]h]WU XmbUa ]Wgž]bWi X]b[ 'Wcffi dh]cbžbYdch]ga ž\_]bg\]d dc`]h]WgžgcW]U `a cj Ya YbhgžUbX I\Y `]b\_g'VYk YYb fY`][ ]cb 'UbX'dc`]h]Wg " €`UXX]h]cbžmci 'k ]```YUfb 'UVci hWcbHYa dcfUfm]ggi Yg gi W. 'Ug a ][ fUh]cbžI\Y'f]gY cZ h\Y'A ]XX'Y 7 'UggYg ]bWi X]b[ 'dcghfYbcj Uh]cb J ]YhbUa žI\Y a UbmZJWfg cZhci f]ga ž[ YbXYf 'UbX'k ca Yb'g ]ggi YgžUbX I\Y'YZYWicZbUh fU`X]gUghYfg cb'h\Y'fY[ ]cb''

## 7cifgY@YUfb]b[CiHWcaYg

%" 5bU'mgY \_\_YmYj Ybhgž]XYUgždYcd`Y 'UbX'hfYbXg'Wcj YfYX'Vmh\Y'Wci fgY" &" A U\_Y'gW\c`UfmUf[i a Ybhg'i g]b[ `]bXYdYbXYbhm`cWUhYX'UbX'WfYX]V`Y'Yj ]XYbWY ' " 7 cbXi Wi]bXYdYbXYbhgW\c`UfmfYgYUfW\ ( " E bak Yfiai Yahoba'daaYY'i abf 'Uffii a YbbUbX'Yi]XYbW\

("5bgkYfeiYgh]cbg'dcgYX'ig]b['Uf[iaYbhUbX'Yj]XYbWY

)"8YgWf]VY`fY`YjUbhUgdYWfg`cZh\Y`X]jYfg]miUbX`XmbUa]ga`cZh\Y`Gcih\YUgh'5g]Ub`fY[]cb"

## HYUWX]b[ GhfUhY[]Yg

H\]gʻWći fgY`]gʻXYg][ bYX hc`\Y`dimci `XYj Y`cd'Uʻei Yghjcb]b[ `a ]bX'k \Yb'UddfcUW\]b[ 'h\Y`gh XmcZ Gci h\YUgh5g]U`YgdYV]U``mUgʻh\Y`YbhjfY`dYfgdYWhj Y`cZh\Y`Wći fgY`W\U`Yb[Ygʻh\Y`Xca ]bUbhgW\c`Ufg\]d h\Uh]bhYfdfYhgʻh\Y`dc`]hJWgʻcZh\Y`fY[ ]cb`UgʻUi h\cf]HUf]Ub''H\Y`YWhi fYgʻdfcj ]XY`VUVL[ fci bX`]bZcfa Uh]cb UbX`]bhfcXi WY`h\YcfYhJWU``UbX`UbU`mhJWU``dYfgdYWhj YgʻUbX`XYVUhYgʻh\UhUfY`YI d`cfYX`cf`YI Ya d`]ZJYX`Vmh\Y gdYV]U`]nYX`k YY\_`mfYUX]b[ g'' #i]gʻ]a dcffUbhih\Uhmci ``YUfb`h\Y`g\_]``gʻcZWf]hJWU``UbU`mg]g'''H\YgY`g\_]``gʻbYYX hc`VY`XYj Y`cdYX`fY[ i`Uf`mcj Yf`h]a Y`UbX`hi hcf]U`gʻUfY`U`Z bXUa YbhU``dUfhcZh\]g``YUfb]b[ `dfcWigg'''K YY\_`m fYgdcbgYgʻhc`h\Y`fYUX]b[ g`HU]bgʻmci `hc`fYZYWhUbX`UbU`mgY`UWUXYa ]WgW\c`Ufg\]d`cb`h\Y`hcd]WUbX YbUV`YgʻYj Yfm/cXmhc`dUfhJW]dUhY`]b`WUgg`X]gW gg]cbg''6mh\Y`YbX`cZh\Y`gYa YghYf`mci `k]``bchcb`m XYj Y`cd`Wf]hJWU``g\_]``g`Vi hU`gc`U`a Uhi fY`WcbZ}YbWY`]b`dfYgYbhjb[ `h\Y]f`]XYUgʻ]b`di V`]W'H\Y`+bX]j [Xi U` 9I YfW]gY`Ugg][ ba Ybh]gʻUb`cddcfhi b]miZcf`mci `hc`\Uj Y`mci f`ck b`cf][ ]bU``fYgYUfW\`dfc`YWfik \]'Y`h\Y`YggUm XYj Y`cdg`mci ffYgYUfW\Z`UbU`mhJWU``UbX`k f]h]b[ `g\_]``gʻZ fh\Yf]b[ `mci f`XYj Y`cda YbhUg`U`gW\c`Uf`cZ Gci h\YUgh5g]Ub`ghi X]Yg''`9b[ U[ Ya Ybhk]h\`h\Y`Wci fgY`WcbHybh]gʻZ fh\Yf`YbWci fU[ YX`UbX`UggYggYX`Vm Ub`YbX!cZhYfa `hYgh'

Hi fb]h]b`gYh]b[.`H\]g`]g`bchU`Hi fb]h]b`Ugg][ ba Ybh

5ggYgga Ybh& FYgYUfW 9ggUm

GHJfh'XUHY. %) #%\$#&\$% `\$).\$\$ DA

@Yb[h\."W\$\$\$"kcfXg

**8YHJ]`g.** FYgYUfW.'9ggUmVfc\_Yb'Xck b']bhc—V]V`]c[fUd\mž'UVgHUWhUbX'Z]bU``YggUmGh XYbhg'k f]hY'Ub YggUmfWU"'' \$\$\$'k cfXgŁ']b'fYgdcbgY'hc'cbY'cZh\Y'ei Ygh]cbg'i g]b['gW\c`Ufg\]d']b'Gci h\YUgh5g]Ub ghi X]Yg": YYXVUW\_`]g'h\fci [\`]bX]j ]Xi U``Wca a Ybhg'UbX'fi Vf]W'H\]g']g'h\Y'Z]bU``UggYgga YbhZcf'UhYbXUbW di fdcgYg"

#### 5XX]h]cbU`XYhJ]`g.

D`YUgY``c[`]bhc`h\Y`A ccX`Y`G]hY`Zcf`h\Y`Wci fgY`UbX`UVWYgg`h\Y`Z]`Y`Ybh]hYX`~9ggUmHcd]Wg`UbX 6]V`]c[fUd\]Yg~"

Hi fb]h]b`gYh]b[.`H\]g`Ugg][ ba Ybh]g`gi Va ]hhYX`h\fci [\`Hi fb]h]b`UbX`gh XYbhg`WUb`gYY`Hi fb]h]b`g]a ]`Uf]hm fYdcfhg"

5ggYgga Ybh' . FYgdcbgYg hc fYUX]b[g

GhUfh'XUhY. "₺ k YY\_g'&'UbX'(

@Yb[h\.')\$\$!\*\$\$'k cfXg

**8YHJ]`g**. `Gh XYbhg`gi Va ]hU`fYgdcbgY`fWU"`) \$\$!\*\$\$`k cfXgEhc`gYhei Ygh]cbg`cb`k YY\_`mfYUX]b[ g`VYZcfY k c`h hcf]U`g"``: YYXVUW\_`]g`Vm]bX]j ]Xi U``Wca a Ybhg`UbX`]b!WUgg`X]gW gg]cb"

#### 5XX]h]cbU``XYHJ]`g.

GYY'h\Y'Z]Y'"Hi hcf]U`FYUX]b[g'UbX'E i Ygh]cbg'Zcf'8]gW gg]cb"]b'h\Y'A ccX'Y'g]hY'hc'Z]bX'h\Y'fY`Yj Ubh ei Ygh]cbg'Zcf'h\Y'ci fbU`g'Xi Y'Uhhi hcf]U`g']b'k YY\_g'&'UbX'("``FYUX]b[g'UfY'U``X][]h]gYX'UbX'UWWgg]V`Y'hc ghi XYbhg'j ]U'h\Y'[fYYb'@Y[Ubhc`]VfUfm`]b\_']b'h\Y'A ccX'Y'g]hY'Zcf'h\]g'Wci fgY"

H\Y`ĉi fbU``ffYgdcbgYg`hc`fYUX]b[gŁ`]g`Ub`YI hYa Y`m]a dcfhUbhWea dcbYbhcZh\Y`h\Y`UggYgga Ybh'' Hi hcf]U`g`k]``cb`mk cf\_`]Zgh XYbhg`Wea Y`he`WUgg`dfYdUfYX`Zcf`X]gW gg]cb"``Gh XYbhg`g\ci `X`Xc`h\Y fYei ]fYX`fYUX]b[`Zcf`h\Y`k YY\_`UbX`Webhf]Vi hY`he`h\Y`WUgg`X]gW gg]cb`]b`Ub`]bZcfa YX`a UbbYf"``H\Y gi Va ]gg]cb`cZh\Y`ĉi fbU``Ybgi fYg`h\Uhigh XYbhg`k]``Wea Y`he`h\Y`WUgg`dfYdUfYX"

Hi fb]h]b`gYh]b[.`H\]g`Ugg][ ba Ybh]g`gi Va ]hYX`h\fci [\`Hi fb]h]b`UbX`gh XYbhg`WUb`gYY`Hi fb]h]b`g]a ]`Uf]hm fYdcfng"

5ggYgga Ybh (. 7`Ugg h Ygh

GHJfh'XUHY. \*&&#%%#&\$%- \*\$-.\$\$\*5A

8YHU]`g. `Ghi XYbhg`Wca d`YhY`U`hYghifWU"`&`\ci fgE`Ubgk Yf]b[ `ei Ygh]cbg`VUgYX`cb`h\Y``YWi fYg"

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

H\Y`WUggʻhYghik]``VY`cb`: f]XUmžBcj Ya VYf`&&ž&\$% `Xi f]b[`f\Y`i gi U``YWi fY`g`ch-!%%"``Ghi XYbhg Ybfc``YX`]b`h\Y`K\_96`j Yfg]cb`cZh\Y`Wci fgY`k \c`WUbbcha U\_Y`h\]g`h]a Y`g\ci`X`WcbhUWih\Y`Wci fgY Wcbj Ybcf`]b`k YY\_`%g]bWY`U`a U\_Y`i d`hYghik]``VY`cf[Ub]gYX`Zcf`h\Ya "``H\Y`hYghik]``VY`VUgYX`cb``YWi fYg UbX`hi hcf]U`g"

=`\UjY`dfcj]XYX`U``YWnifY`\UbXcihZcf`YUWX``YWnifY`hcd]W`H\]g`\UbXcihigiaaUf]gYg`h\Y`aU]b`dc]bhg`cZh\Y `YWnifY''``H\YmUfY`UjU]`UV`Y`]b`h\Y`AccX`Y`G]hY`ibXYf`U`Z]`Y`Ybh]hYX`´´@YWnifY`<UbXcihg´´'```H\Ymik]```VY \UbXmZcf`bchYhU\_]b[`Uh`YWnifYg`UbX`Zcf`fYj]Yk]b[`Zcf`h\Y`hYgh'

Hi fb]hjb`gYhjb[.`H\]g`]g`bchU`Hi fb]hjb`Ugg][ ba Ybh

# 5HYbXUbWYFYei]fYaYbhg

Ghi XYbhgʻUfYʻghfcb[`mYbWci fU[YX'hcʻUhhYbX'U```WUggYgʻUbX'fYj]Yk ``YWhi fYʻfYWcfX]b[g"

# 7 ci fgY GWX YXi `Y

# <u>J]Yk WUgg'hja YHJV`Y</u>

# H]a YHJV`Y'

8 UHY	Hmd Y			7 cbhYbh
	@YW/i	‰	‰	‰ ‰ ‰

	Hi hcf]U`	ŧδX]j ]Xi U``9I YfW]gY'dfYgYbłUh]cbg
K_YY_'`%%`Bcj Ya VYf`!	@YWhi fY	; YbXYf`]b`Gci h\YUgh5g]U
%) BcjYa VYf	Hi hcf]U`	ŧðX]j]XiU``9IYfW]gY`dfYgYbHUh]cbg`Wcbh]biYX
K_YY_`%\$.`%_`Bcj Ya VYf'!	@YWhifY	7 ʿUgg ʿHYgh
&& Bcj Ya VYf		

# FYgci fWg

# DfYgWf]VYX F Ygci fWfg

H\YfY`UfY`bc`hYI hVcc\_g`fYei ]fYX`Zcf`h\]g`Wci fgY"

D`YUgY``c[`]bhc`h\Y`A ccX`Y`G]hY`Zcf`h\Y`7 ci fgY"`5```fYUX]b[g`Zcf`h\Y`hi hcf]U`g`\Uj Y`VYYb`X][]h]gYX`Zcf ghi XYbhg`UbX`UfY`UWWYgg]V`Y`j ]U`h\Y`[fYYb`@Y[Ubhc``]b\_`hc`h\Y``]VfUfm!Ybh]hYX!!`F Yei ]fYX`fYUX]b[g`Zcf hi hcf]U`g"``D`YUgY``c[`]bhc`h\Y`A ccX`Y`g]hY`Zcf`h\Y`Z]`Y`cb`Hi hcf]U``F YUX]b[g`UbX`E i Ygh]cbg`Zcf`8]gW gg]cb"

#### FYWca a YbXYX<sup>-</sup>FYgci fWYg

D`YUgY``c[`]bhc`h\Y`A ccX`Y`G]hY`Zcf`h\Y`Wci fgY`UbX`W]W\_`cb`h\Y`Z]`Y`~9ggUmE i Ygh]cbg`UbX`6]V`]c[fUd\]Yg″ k \]W.`\Ug`h\Y``]ghcZYggUmei Ygh]cbg`UbX`fYWca a YbXYX`fYUX]b[`g`Zcf`YUW.`hcd]W

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

Ghi XYbhYj U`i Uh]cb`]g`[Uh\YfYX'h\fci [\`A m9I dYf]YbWY'WcgY'hc'h\Y`YbX'cZh\Y'hYfa "``H\Y'ZYYXVUW\_``Ugh mYUf`k Ug`j Yfmdcg]hj Y`UbX'h\Y'cb`ma U'cf`WcbWYfb'k Ug'h\Y'bi a VYf`cZUggYgga Ybhg'' ⊕`fYgdcbgY'hc'h\]g`= \Uj Y`fYXi WYX'h\Y'bi a VYf`cZUggYgga Ybhg'Zcf`h\]g`Wci fgY'' =fYXi WYX'h\Y'bi a VYf`cZfYgdcbgYg'hc fYUX]b[g'Zca '(`hc'&'UbX'W hXck b'h\Y'bi a VYf`cZfYUX]b[g'hc'UX↑ghhc'h\Y'%\$`k YY\_`hYfa "

# 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 YbhN fci [ \ 'Hi fb]hjbž'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'fl \*) 'XUmg'U'mYUfŁ'" =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'YI hYbg]cbž'Vi hmci a i ghfYhU]b'mci f'hjW\_Yhbi a VYf'Zfca '9I hYfbU``Gi ddcfhfU`cb[ 'k ]h`Ubm'ch\Yf'fY`Yj UbhXcW a YbhgŁ'hc ]bWi XY'Ug'Yj ]XYbWi'hc'gi ddcfhimci f'YI hYbg]cb'Udd`]WUh]cb''`=Zmci 'Ya U]``9I hYfbU``Gi ddcfhimci 'k ]``

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

D`U[]Uf]ga `]g`i g]b[`h\Y`k cfXg`cf`]XYUg`cZch\Yfg`UbX`dfYgYbh]b[`h\Ya `Ug`mci f`ck b"`=hWUb`hU\_Y`a Ubm Zcfa gžZca `XY`]VYfUhY`W\YUh]b[`hc`UWW]XYbhU``mWcdm]b[`Zca `U`gci fWY`k]h\ci hUW\_bck `YX[Ya Ybh'

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

7 cdm]b[..i g]b[.ih,Y`gUa Y`cf`j Yfmig]a ]`Uf`k cfXg`hc`h,Y`cf][]bU``hYI h`cf`]XYU`k ]h\ci hUW\_bck `YX[]b[`h\Y gci fWF`cf`i g]b[`ei chUh]cb`a Uf\_g"`H\]g`U`gc`Udd`]Yg`hc`]a U[YgžUfhUbX`XYg][b`dfc´YWfgž'Ug`k Y```Ug dfYgYbhUh]cbg`k \YfY`gca YcbY`dfYgYbhg`Ubch\Yf\*g`]XYUg`cf`k cfXg`k ]h\ci hWfYX]h"

=bUddfcdf]UhY`dUfUd\fUg]b[..7\Ub[]b[`U`ZYk`k cfXg`UbX`d\fUgYg`k \]`Y`a cghmfYhU]b]b[`h\Y`cf][]bU` ghfi Whi 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 ]h ch Yfg Vi hdUgg]b[ cZth 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\_'hc Ubch Yf gh XYbhVYZcfY h Y Xi Y XUhYžcf Zcf'h Y di fdcgY cZh Ya

- i bXYfgHJbX\*mci f\*f][\hg\*UbX\*fYgdcbg]V]`]h]Yg\*Ug\*U\*ghi XYbh\*Uhil BGK
- VY 'Uk UfY 'cZd'U[]Uf]ga ž Wcdmf][ \hzi I BGK 'Ghi XYbhi7 cXY 'cZ7 cbXi WhubX '5 WW dhuV Y I gY 'cZ I BGK '=7 H F Ygci fW g'Dc']Wh
- VY Uk UfY cZh Y gHUbXUfXg cZVY Uj ]ci f YI dYWHYX cZYj YfmcbY ]b h Y I BGK Wea a i b]m
- `cWUHY'gYfj ]WYg'UbX']bZcfa UHjcb'UVci hI BGK 'UbX'I BGK '@]VfUfm

Gca Y'cZh\YgY'UfYUg'k]``VY'ZJa]`]Uf'hc'mci žch\Yfg'k]``VY'bYk"'; U]b]b['U'gc`]X'i bXYfgHJbX]b['cZU``'h\Y fY`UhYX'UgdYWfg'cZ9@=G9'k]``\Y`d'mci 'a U\_Y'h\Y'a cghcZmci f`gh X]Yg'Uh'l BGK "' \htd.#gi VYWf[i]XYg"`]VfUfm'i bgk "YXi "Ui #Y`]gY#UVci hY`]gY

# 5WUXYa]W=bZcfaUh]cb<sup>.</sup>

: cf<sup>·</sup>YggYbhJU<sup>··</sup>gh XYbhJbZcfa UhJcb<sup>·</sup>fY<sup>·</sup>UhJb[<sup>··</sup>hc.

• fYei YghgʻZcf`Yl hYbg]cb/