

## && 6U\bYb. Jcb 6YghgY``Yf ni VYk Y[YbXYa '?]bcZ]`a 'GhUfh']a GYdhYa VYf &\$&)

9f`YVYb`G]Y`a]h'/eich/&&`6U\bYb/eich/X]Y`VYkY[YbXY; YgW\]W\hY`jcb`H]`XU`ibX`=XUž`nkY]`GW\kYghYfbž`X]Y`hfchngW\k]Yf][Yf`IaghÀbXY`ZØf`Y]b`VYggYfYg`@YVYb`\_AadZYb"8]YgY`dUW\_YbXY`5XUdh]cb`XYg`6YghgY``YffcaUbg`jcb7Ufc`]bY`KU\`ž`]bgnYb]Yfh'jcb`A]U`AUUf]Y``AYmYf`ibX`a]hY]bYa`ghUf\_Yb`7Ughž`ghUfhYh`Ua`("`GYdhYaVYf`&\$&)`]b`XYb?]bcg"`HUiW\Yb`G]Y`Y]b`]b`Y]b`:]`a!9f`YVb]g`ØVYf`@]YVYžNigUaaYb\U`h'ibX`X]Y`<YfUigZcfXYfib[Yb`XYg9fkUW\gYbkYfXYbg°



 $\label{thm:linear_continuous_co$ 

## $8Yf'dUW_YbXY'=b\setminus U'h$

 $8 ]Y ; YgWX]WX hY ii a "H]`XU"[Y h'Ubg'< Yfn." $\[ f'5 ``hU["]b Y]b Yf ? `Y]bghUXh"]gh'Y]b 'ghÀbX][Yf'? Ua dZ'[Y[Yb 'X]Y 'K ]Xf][_Y]hYb 'XYg @YVYbg" Nk ]gWX Yb 'XYa "Ghi X]i a ž'Y]bYa "$\[ V Ub 'XYf Gi dYfa Uf_h_UggY ii bX 'XYf'J YfUbhk cfhi b[ 'ZØf']\ fY '_`Y]bY GWX k YghYf $\[ \] XU"V"Y]Vh"_Ui a "NY]h 'ZØf'Y][ YbY 'HfÀi a Y" '8 Ug' < Ui g']b XYf': fÒ\`]WX ghfU\[ Yž']b 'XYa "g]Y 'a ]h']\ fYf'U`_c\c`UV\\ Ab[][ Yb A i hhYf'`YVhž']gh'Y]b 'Gma Vc``ZØf' < cZZbi b[ g`cg][_Y]h'' $\[ fY : fYi bXY g]bX'k Y]h'k Y[ ž'`YVYb 'XUg'@YVYbž'XUg'g]Y 'g]WX 'k ØbgWX hž']b Ui ZfY[YbXYb'A Yhfcdc`Yb'k ]Y '5a ghYfXUa 'cXYf'6Yf']b"'8cWX 'H]`XU V`Y]Vh'ni fØW_' 'ZØf' $\[ XUž'ZØf'X]Y'J YfUbhk cfhi b[ "$ 

9]b K YbXYdi b\_h']b ']\fYa '@YVYb 'gW\Y]bh'[ fY]ZVUf. '9]bY
j ]Y 'j YfgdfYW\YbXY 'Dfca ch]cb ']b '6Yf `]b 'ghY\h']a 'F Ui a ž'[ YbUi gc
k ]Y 'XUg '5 i ZY]bUbXYfhfYZZYb 'a ]h'J ]\_hcfž'XYa '[ fc» Yb '6fi XYf'] cb

# Ubž'XYb 'H] 'XU'j cf 'ZØbZ' \*J\fYb 'j Yf `cf" '9]b 'A Ubbž'XYf 'XUg'[ `Y]W\Y
F ]hi U `hY] `h ']a a Yf '&& '6U\bYb 'ni 'gW\k ]a a Yb " 8 Ug'\_`]b[ h'ZUgh'ni
gW\ Òbži a 'k U\f'ni 'gY]b 'UVYf'\_Ui a ']gh'Y]b : i b\_Yb '< c\ZZbi b[
YbhZUW\hž'[ YfÀh'XUg 'ZfU[ ]`Y'; 'Y]W\[ Yk ]W\h']b ']\fYa 'Ni \Ui gY']bg
K Ub\_Yb " 8 Ug'8 fUa U ']bhYbg]j ]Yfh'g]W\ž'i bX'X]Y 'Ni gW\Ui Yf'k YfXYb
NYi [ Yb'Y]bYf'VYk Y[ YbXYb'9fnÀ\`i b[ 'ØVYf'XYb', VYf`YVYbgk ]``Yb
nk Y]Yf'GW\k YghYfb"

9]b:]`a 'ØVYf'<cZZbib['ibX'NigUa a Yb\U`h

ł && '65 < B 9Bł 'j Yfgdf]Wk h'b]Wk h'bi f'YfbghY 'H\Ya YbžgcbXYfb'j cf U``Ya 'Y]bY'VYfØ\fYbXY'i bX']bgd]f]YfYbXY'; YgWk]Wk hY'ØVYf'XUg 9fk UWkgYbk YfXYbž'X]Y'? fUZh'XYf'@]YVY'i bX'XYb i bYfgWkØhhYf']WkYb'Ni gUa a Yb\U`h"'8i fWk'X]Y'5i [Yb'j cb'H]`XU i bX'=XU'k]fX'[YnY][hž'XUgg'Yg'b]Wkh'bi f'i a 'X]Y'l a ghÀbXY'[Y\hž X]Y'i bg'i a [YVYbž'gcbXYfb'Ui Wk'i a 'X]Y' < cZZbi b['i bX'XYb; `Ui VYb'Ub'Y]bY'VYggYfY'Ni \_i bZh"'9]b':]`a ž'XYf'[UfUbh]Yfh 9a ch]cbYb'k YW\_h'i bX'ni a 'BUWkXYb\_Yb'UbfY[h' 'Y]b'UVgc`i hYg A i gg'ZØf'U``Y'?]bcZUbg°

DfcXi n]Yfh'k ]fX' i && '65 < B 9B i j cb '6Yf[\Ui gK OV\_Y : ]'a dfcXi \_h]cb ']b '7c!DfcXi \_h]cb 'a ]h'7cbghUbh]b : ]'a ž'X]Y'Ui W\
ZØf'XYb 'J Yf'Y]\ 'j YfUbhk cfh']W\ ']gh" 8 Yf': ]'a 'Yf\À`h'ni XYa
k Yfhj c``Y'I bhYfghØhni b[ 'Xi fW\ 'XYb : ]`a : YfbgY\: cbXg'6UmYfbž
X]Y': ]'a ZÒfXYfi b[ gUbghU`hž'XUg'A YX]YbVcUfX'6Yf`]b!6fUbXYbVi f[
i bX'XYb'8Yi hgW\Yb': ]`a ZÒfXYfZcbXg"'A ]h'X]YgYf'VYY]bXfi W\_YbXYb
I bhYfghØhni b[ 'ghY\Yb'X]Y'7\UbWYb'[ i hž'XUgg' i && '65 < B9B i Y]b
\YfUi gfU[ YbXYg'? ]bcYfY][ b]g'k ]fX"

GY]Yb'G]Y'VYfY]h'ZØf'Y]b'Ya ch]cbU'Yg'9f'YVb]g'j c'`Yf'8fUa U'i bX < cZZbi b[ 'UV'GYdhYa VYf'&\$&) "'\ &&'65 < B9B\ 'k ]fX'X]Y' < YfnYb'XYf Ni gWXUi Yf']a 'Ghi fa 'YfcVYfb'

8 Y hU]`q

6 Ygi WX Yb 'G]Y 'i bg 'Ui Z. 'a Y]b!VYf`]b "bYh