

Theory

General Instructions

Cover sheet

D'YUgY fYhi fb h\]g Vtj Yf g\YYhtc[Yh\Yf k]h\ U` h\Y fY`UhYX ei Ygh]cb g\YYhg"

H\Ycfm

H\Ycfm

; \$! (
 Dcfhi [i Ag 6fUg] f6fOn]t

7cbghUbhYg: 6jWlg Y 9ei UANyg

7cbghUbhY XY 5j c[UXfc.

/ (1" \$!

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H\Ycfm

H\ Yc fm

H\Ycfm

E %d %

Dcfhi [i Ag 6fUg] f6fUn]t

I a hYghY XY 1/2]Xc bi WY]Wc f1/2]Xc Y j]gi U dUfU 7CJ =8!%

-i Xc hchU						
E i Yghc	%%	%&	%"	%('	%)	HchU
Dcbhi UAc	%	%	(((%
BchU	%					

H\Ycfm

Chromium in Theory e n M

H\Ycfm

H\Ycfm

E &! &

Dcfhi [i 4g 6fUg] f6fUn]Ł

H\Ycfm

E &!

Dcfh [i 4g 6fW

H\Ycfm

E &! (

Dcfhi [i Ag 6fUg] f6fUn]Ł

5j U'AbWUj Uf]¼ Y`Xc WĐa]c b¿c Ā]a dcfHUbHY UdYbUgdUfUUdfcXi Ā¿c XY d][a Ybhcgža UghJa VĀa ĀÖh`

BRA-4 T-3 C
FUZY` A cfYbc F]VY]fc

Theory Capture and Transformation of Carbon Dioxide

Cover sheet

D`YUgY fYhi fb h\]g Vtj Yf g\YYhlc[Yh\ Yf k]h\ U` h\Y fY`UHfX ei Ygh]cb g\YYhg"

H\Ycfm

E ' !%

Dcfhi [i Ag 6fUg] f6fUn]Ł

7Udhi fUY HfUbgZcfa UÃ¿c Xc 8]Í I]Xc XY 7UfVcbc

%i Xc hchU'

Ei Ygh¿c

H\Ycfm

E ' ! &

H\Ycfm

E' !'

Dcfhi [i 4g 6fUg] f6fUn]Ł

H\Ycfm

E ' ! *

Dcfhi [i Ag 6fUg] f6fUn]Ł

' "%% GY UN= !, ZcfbYW gfhcg ¼XcgbcdfcWggc WHU'fh]Ł a cghfUXc UV]a UzVŁa d`YhY

BRA-4 T-4 C
FUZY` A cfYbc FjVYjfc

H\Ycfm

E (!%

Dcfhi [i 4g 6fUg] f6fUn]Ł

H\Ycfm

E (!&

Dcfhi [i 4g 6fUg] f6fUn]Ł

H\Ycfm

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H\Ycfm

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Dcfh [i 4g 6fUg] f6fUn]Ł

gY[i]bhY a YWUb]ga c ft gfh]c XY UXgcfĀ;c Ā]bX]WUXc Vt a c G]hYŁ

C_&/[fiŁ &G]hY^k

Theory Enabling Phosphines

Cover sheet

D'YUgY fYh fb h\]g Vtj Yf g\YYhtc[Yh\Yf k]h U` h\Y fY`UhYX ei Ygh]cb g\YYhg"

H\Ycfm

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H\Ycfm

Q7-2

Dcfhi [i Ag 6fUg] f6fUn]Ł

Gja]Ufa YbhYžN!Yh]b]!M!a Yh]!p!hc`i Ybcggi `ZcbUa]XUfA Mhg5ŁVŁa gi UYghfi hi fUXY fYggcb³bVWUdf]bVW!
dU` 7 fŁ Ybj c`j]a Ybhc Xc [fi dc Hg bŁc Å VŁbg]XYfUXcŁdcXY Uhj Uf c ¼Xc WfVcl É]VŁ XU a Yga U Zcfa U
ei Y U U YbcbU

Theory

Q7-3

Dcfhi [i Ag 6fUg] f6fUn]t

7.3 Desenhe Ug Yghfi hi fUg Xc]bhYfa YX]1/2]c 21 Y Xcg Wta dcgrcg 24 Y 25

H\ Ycfm
5a Un]b[7\]fU` Gd]fc 7UhU`mgh
7cj Yf g\YYh

D`YUgY fYh fb h\]g Vtj Yf g\YYhfc[Yh\Yf k]h U` h\Y fY`UhYX ei Ygh]cb g\YYhg"

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Dcfhi [i 4g 6fUg] f6fUn]Ł

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fUŁA Y@: 7Y7`
fVŁA Y@: 7i =
fWŁA YD\ . DŁ = ž 6i @
fXŁA Y. GŁ = † BU< Ugg]bUY

Theory

Q9-1

Dcfhi [i Ag 6fUg] f6fUn]t

Q9-2

Theory

Q9-3

Theory

Q9-4

Dcfhi [i Ag 6fUg] f6fUn]t
