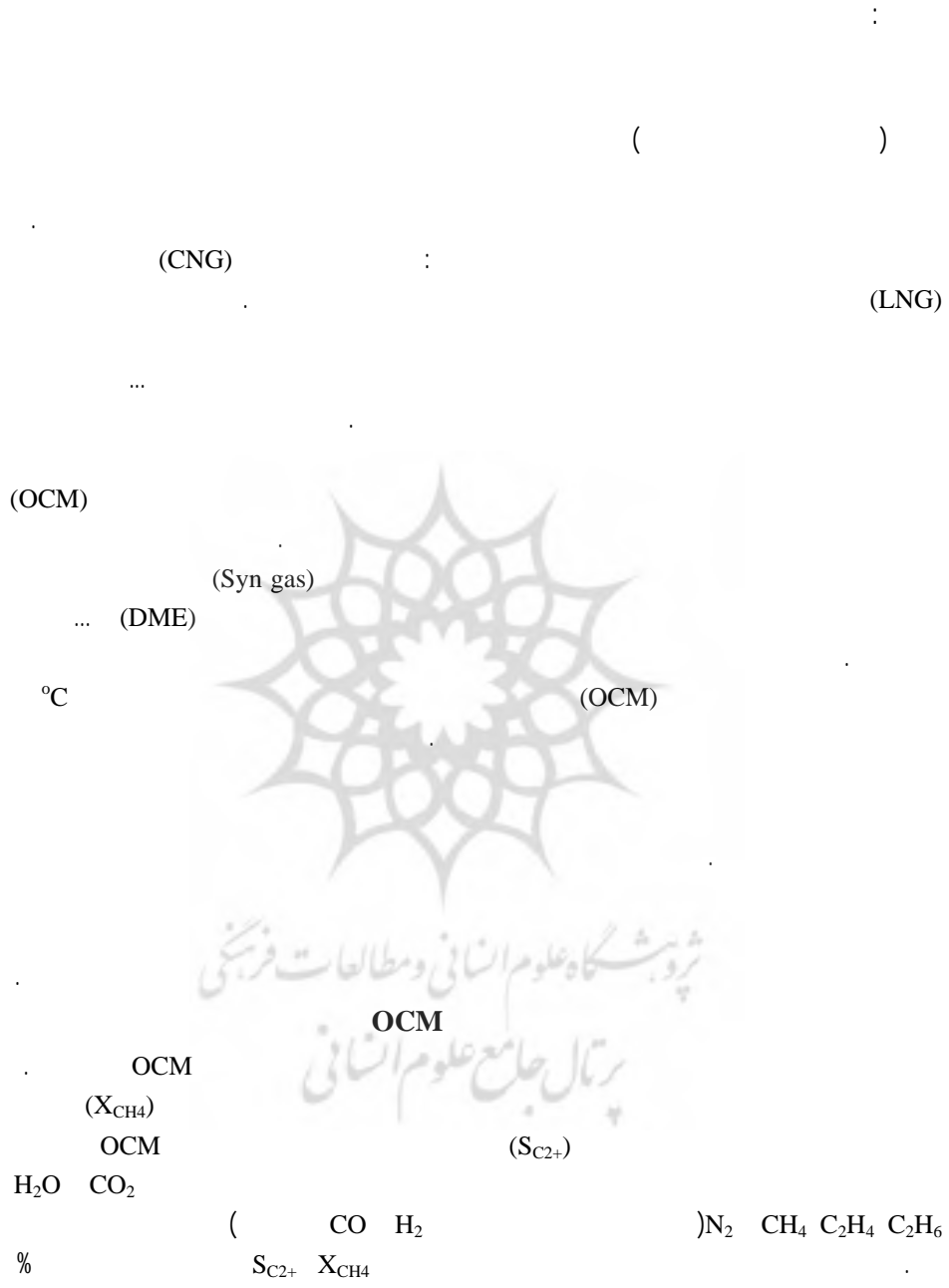
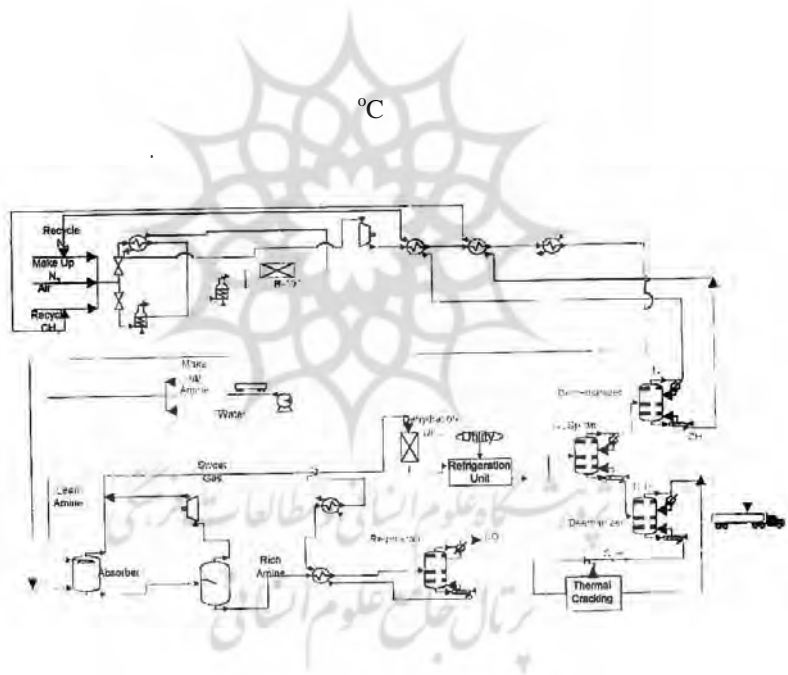


OCM





S_{CO_2} X_{CH_4}
HYSYS Plant
 Visual Basic (Extension)



atm °C
 % % (DEA)

oC

(C2-Splitter)

(Deethanizer)

(Demethanizer)

(%)

% /

(Case Study)

$S_{C2+}=80\%$

$X_{CH4}=40\%$ -

$S_{C2+}=55\%$

$X_{CH4}=27\%$ -

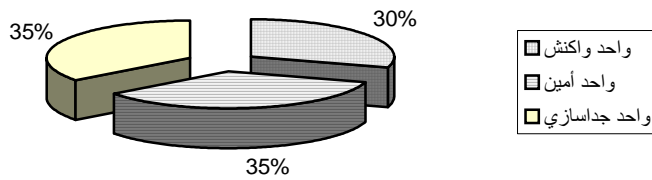
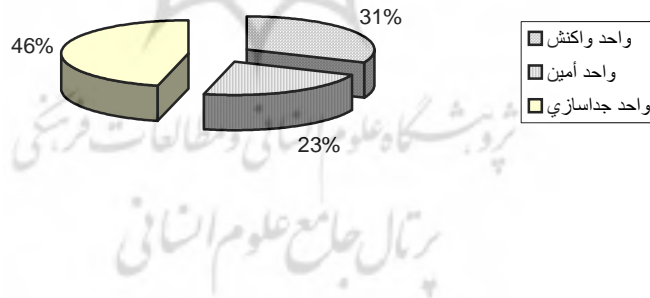
/

%

()

HTFS HYSYS Plant

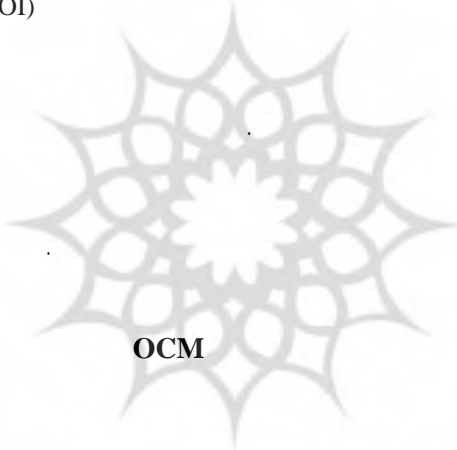
ACOL



OCM

/	/	
/	/	
/	/	
		()
/		(ROI)

(X_{CH4}=%40)
(ROI)



OCM

(X_{CH4})

(

X_{CH4}=

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(C₂H₄/C₂H₆) /

S_{C2+}=%80 %40

(C₂H₄/C₂H₆) /

/

%

/

/

(C₂H₄+0.6 C₂H₆)

$C_2H_4/C_2H_6=7.14$	$C_2H_4/C_2H_6=4.33$
$CH_4=1$ mole	$CH_4= 1.027$ mole
$O_2=0.31$ mole	$O_2=0.313$ mole
$N_2=1.965$ mole	$N_2=2.01$ mole

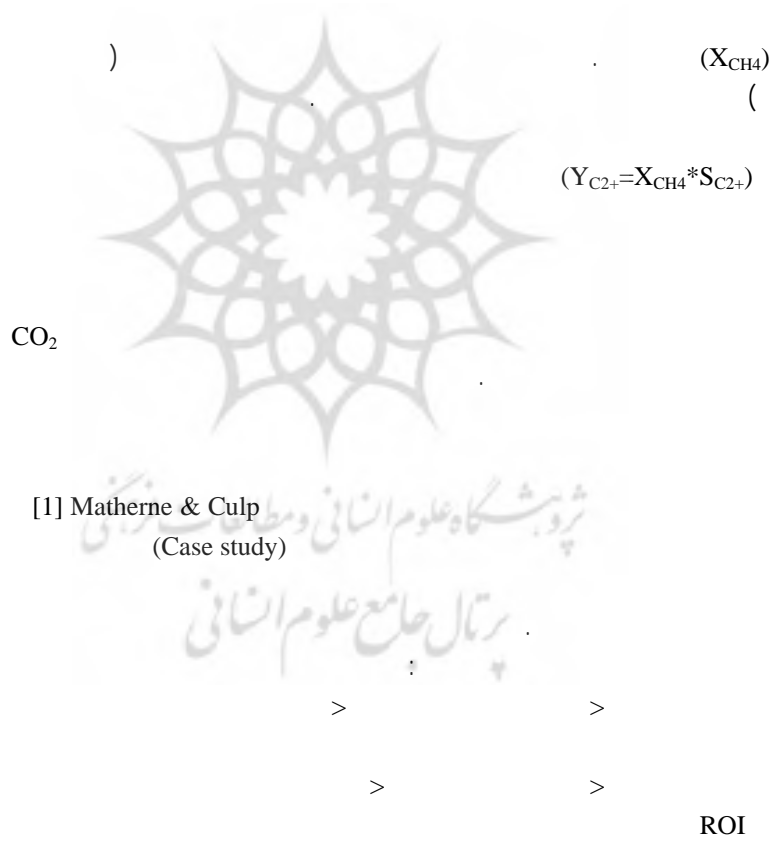
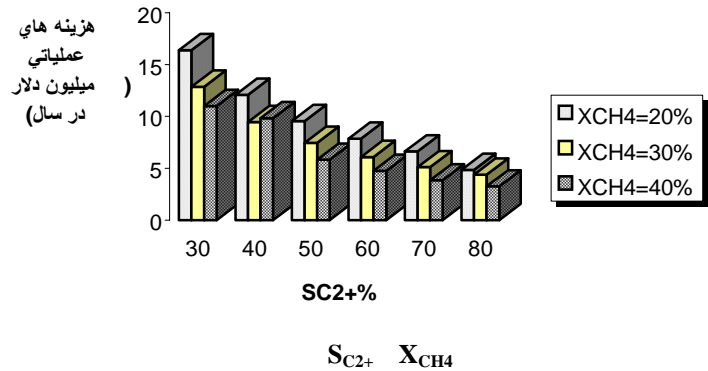
($C_2H_4/C_2H_6=4.33$)

C_2H_4/C_2H_6		$\$/Year$
C_2H_4/C_2H_6		
/		/ ×
/		/ ×
/		/ ×
/		/ ×
XCH4=40% *	:	*
SC2+=80% *	%	*

CO₂

S_{C2+}

CO₂



	ROI (%)

ROI

[2,3]

OCM



-
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