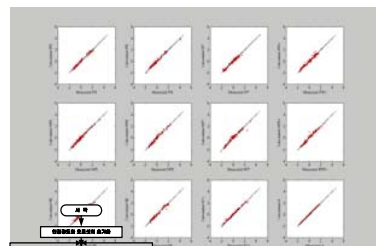
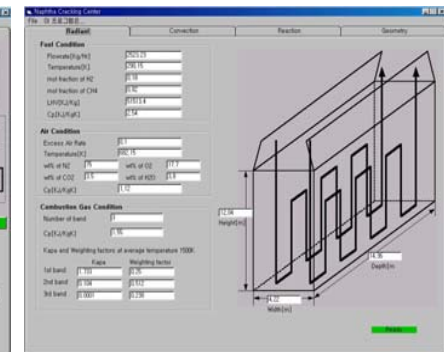
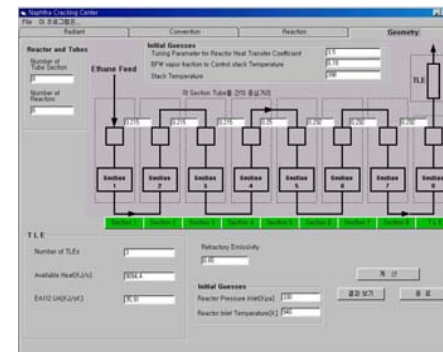
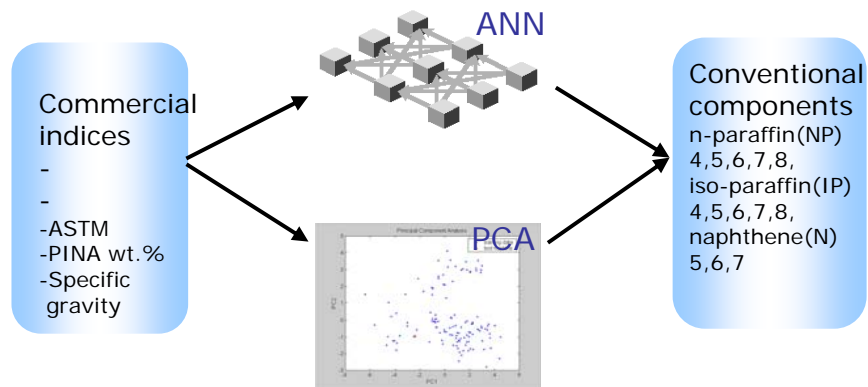


# Modeling and Optimal Design for Naphtha Cracker

## CRACKER : PC Based Furnace Simulator

with KAIST, Samsung Eng



Feed Characterization Module

Input Data (ASTM, s.g. and PINA)	Output data (Conventional component wt%)
BP(C) [30.7]	NP 4 [50.44] IP 7 [40.05]
10% distil(C) [65.7]	NP 5 [0.00] IP 8 [14.54]
50% distil(C) [101.6]	NP 6 [0.00] N 5 [0.00]
90% distil(C) [137.6]	NP 7 [19.83] N 6 [0.00]
EBP(C) [163.9]	NP 8 [0.00] N 7 [57.99]
s.g. [0.71]	IP 5 [50.48] A total [-0.10]
NP total [wt%] [43.48]	IP 6 [0.00] P. C. [****]
IP total [wt%] [26.33]	
N total [wt%] [10.17]	

P. C. (Pseudo components) : IP5, IP10, NP1, NP10, N1, N10  
 NP : normal paraffin IP : iso-paraffin  
 N : naphthene A : aromatics

Calculation Save Result EXIT

