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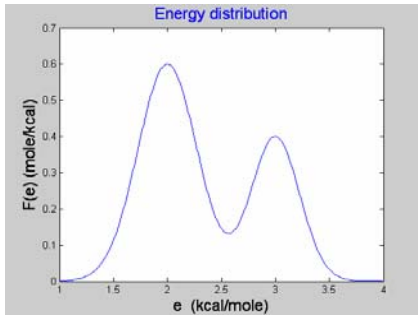
[-]

[-]

: () $1 \frac{Kcal}{mol} < e < 4 \frac{Kcal}{mol}$

$$f(e) = 1.125 \exp(-(e - 2.5)^2 / 0.25)$$

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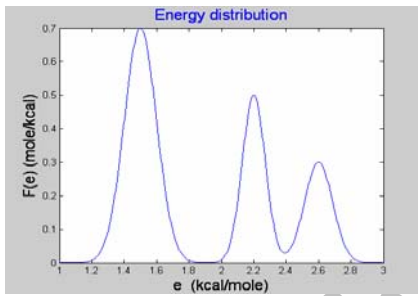


.(Overlapped) :

Non overlapped triple Peak

$$f(e) = 0.7 \exp(-(e-1.5)^2 / 0.02) + 0.5 \exp(-(e-2.2)^2 / 0.01) + 0.3 \exp(-(e-2.6)^2 / 0.015)$$

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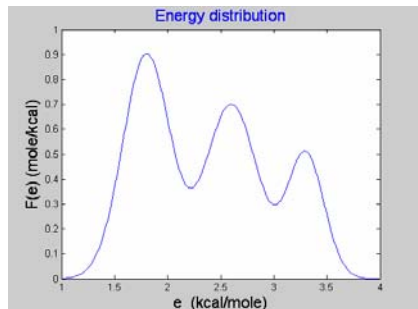


.(Non overlapped)

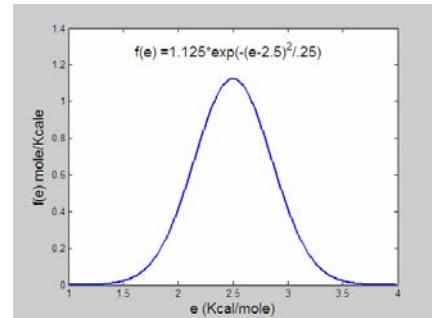
Overlapped triple Peak

$$f(e) = 0.9 \exp(-(e-1.8)^2 / 0.1) + 0.7 \exp(-(e-2.6)^2 / 0.12) + 0.5 \exp(-(e-3.3)^2 / 0.06)$$

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.(Overlapped) :

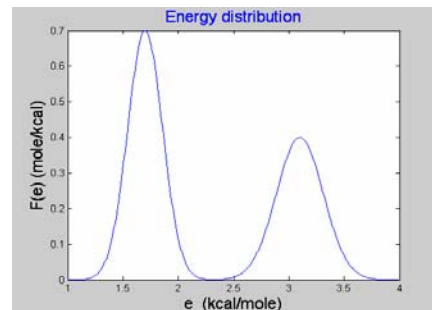


.(Single peak) :

Non overlapped double Peak

$$f(e) = 0.7 \exp(-(e-1.7)^2 / 0.05) + 0.4 \exp(-(e-3.1)^2 / 0.09)$$

()



.(Non overlapped)

Overlapped double Peak

$$f(e) = 0.6 \exp(-(e-2.0)^2 / 0.15) + 0.4 \exp(-(e-3.0)^2 / 0.1)$$

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$$F(e) = 1.125 \exp\left[-\frac{(e-0.25)^2}{0.25}\right]$$

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:[-]

$$g(p_i) = \int_{e_{\min}}^{e_{\max}} k(p_i, e) f(e) de$$

()

77.5

$$1 \text{ mbar} < P_i < 1000 \text{ mbar}$$

f(e)
k(p,e)

()

$$1 \frac{\text{Kcal}}{\text{mol}} < e < 4 \frac{\text{Kcal}}{\text{mol}}$$

$$\theta(P_i, T) = \int_{e_{\min}}^{e_{\max}} \frac{k_0 \exp\left[\frac{e}{RT}\right] P_i}{1 + k_0 \exp\left(\frac{e}{RT}\right) P_i} F(e) de$$

()

F(e)

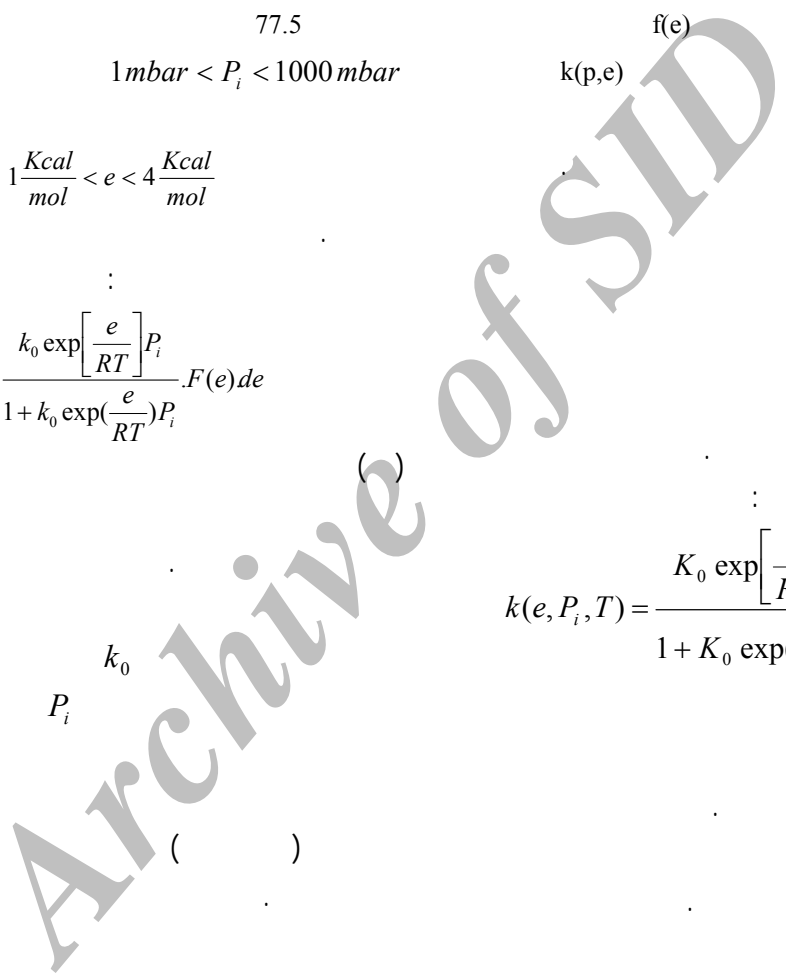
$$k(e, P_i, T) = \frac{K_0 \exp\left[\frac{e}{RT}\right] P_i}{1 + K_0 \exp\left(\frac{e}{RT}\right) P_i}$$

$\theta(P_i, T)$
T P_i k_0

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K_0

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$$f = \{A^T A + \gamma I\}^{-1} A^T g.$$

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g I A

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(GCV)

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: (a)

(GCV)

: (b)

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: (c)

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(

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(k₀)

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Non overlapped double peak

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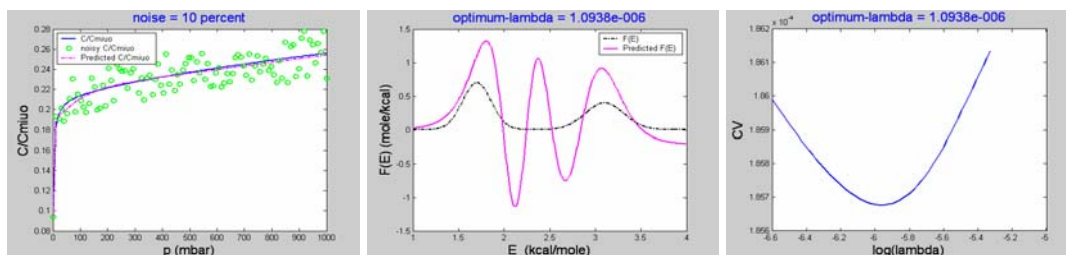
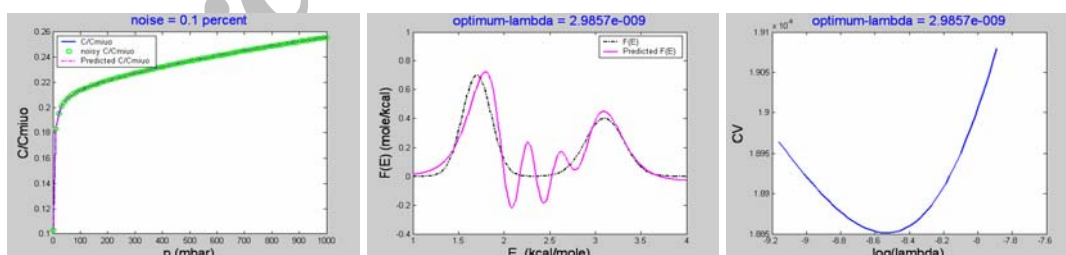
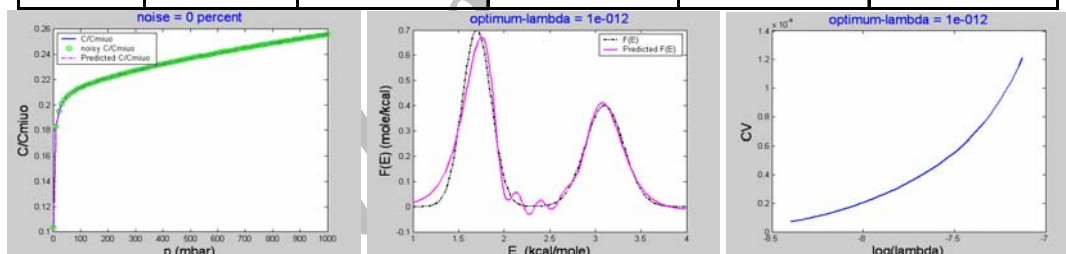
(k ₀)				
Type	Double peak		Triple peak	
	Non overlapped	Overlaped	Non overlapped	Overlaped
equi space	3.136E-09	4.306E-09	1.752E-08	1.874E-09
Non equi space	1.120E-08	2.343E-09	7.107E-09	2.856E-09

(equi space)

Noise		Double		Triple	
		Non overlapped	Overlapped	Non overlapped	Overlapped
0.10%	2.000E-03	2.986E-09	8.652E-08	4.863E-09	5.362E-09
0.50%	1.000E-02	1.011E-08	3.076E-07	1.002E-07	5.856E-08
1%	2.000E-02	1.906E-08	6.395E-07	1.554E-07	1.409E-07
3%	6.000E-02	3.392E-07	1.681E-05	3.739E-07	7.051E-07
5%	1.000E-01	6.091E-07	4.460E-05	6.715E-07	1.836E-04
10%	2.000E-01	1.094E-06	2.125E-04	1.127E-04	5.921E-04
20%	4.000E-01	.....	1.013E-03	.....	.....

(Non equi space)

Noise		Double		Triple	
		Non overlapped	Overlapped	Non overlapped	Overlapped
0.10%	2.000E-03	3.775E-08	1.217E-07	2.683E-08	4.588E-08
1%	2.000E-02	8.162E-07	1.964E-06	1.539E-06	1.329E-06
3%	6.000E-02	1.871E-06	4.288E-06	3.889E-06	3.047E-06
5%	1.000E-01	2.632E-06	6.034E-06	5.473E-06	4.288E-06
10%	2.000E-01	3.704E-06	8.914E-06	7.700E-06	6.335E-06
20%	4.000E-01	.....	.....	1.084E-05	.....
30%	6.000E-01	.....	.....	1.317E-05	.....
50%	1.000E+00	.....	.....	1.681E-05	.....



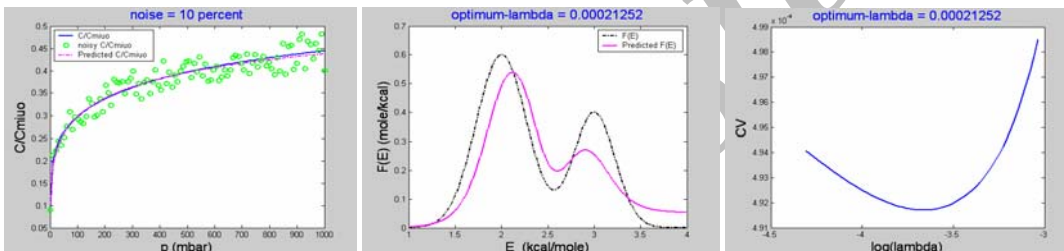
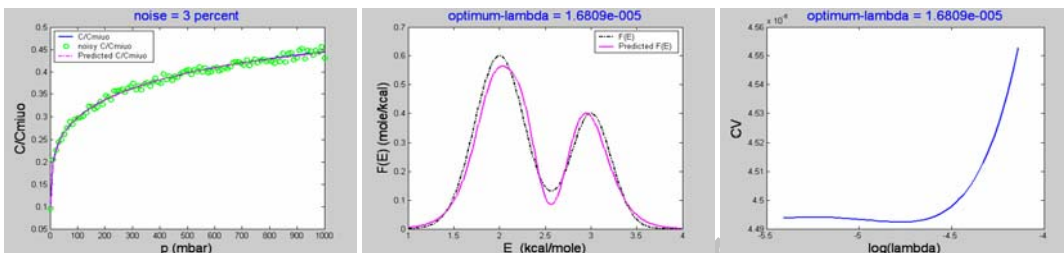
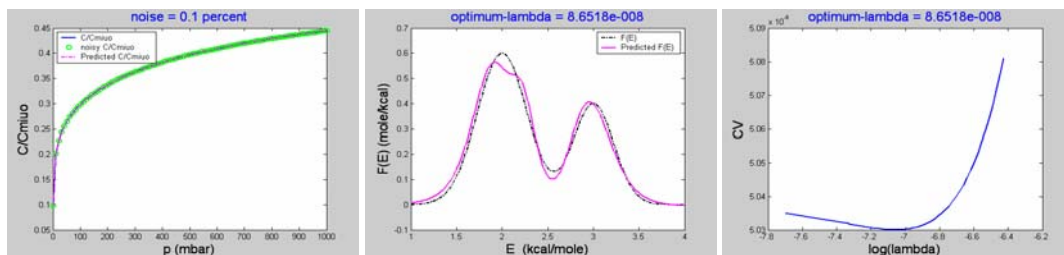
(c)

(b)

(a)

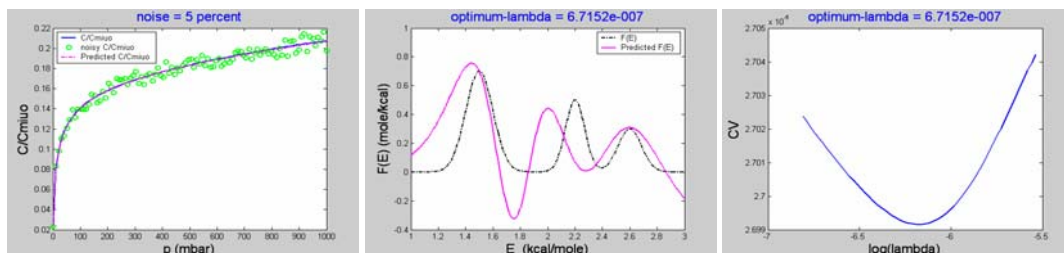
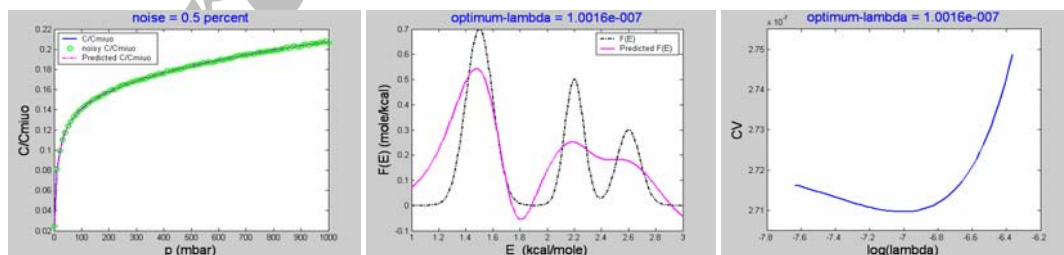
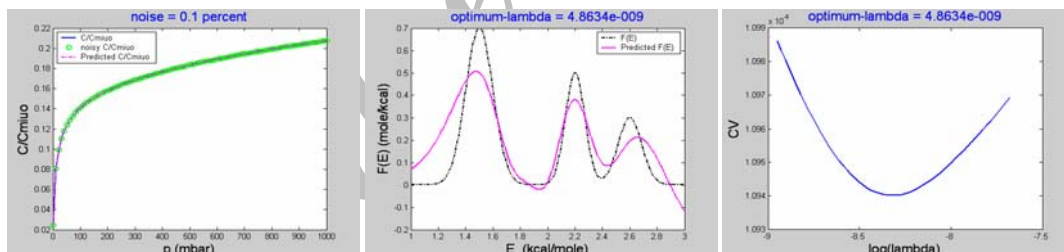
Non Overlapped double peak

cv :



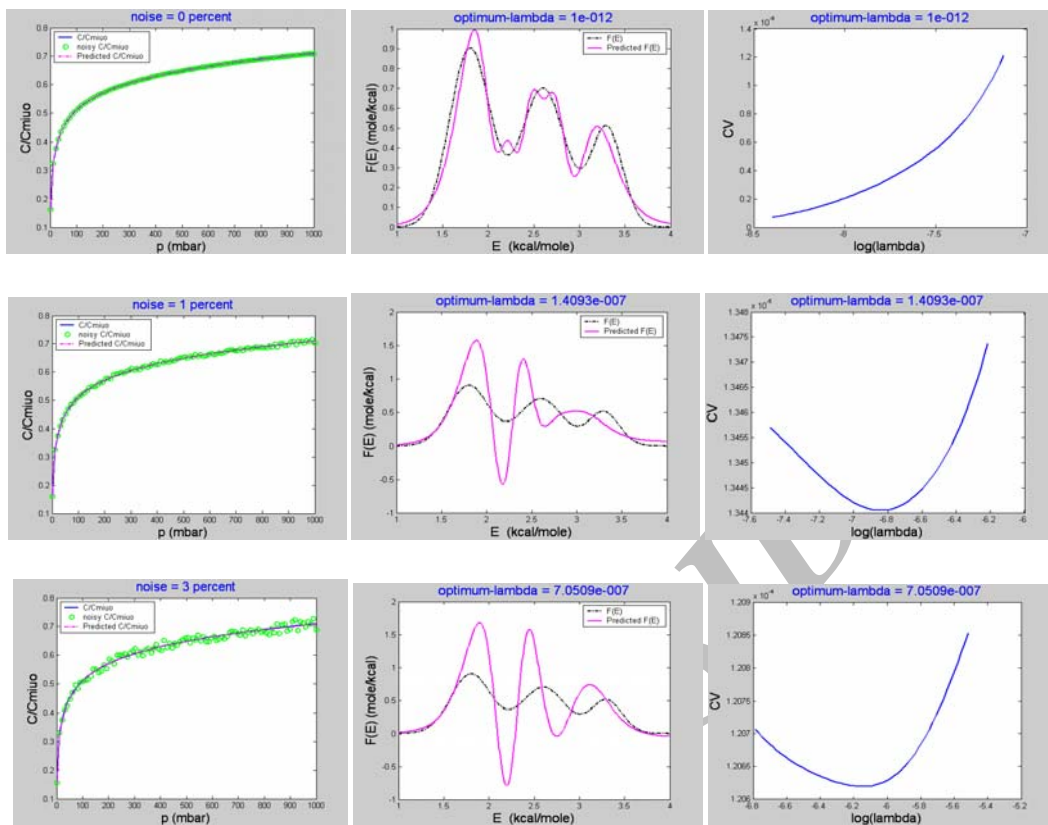
Overlapped double peak

cv :



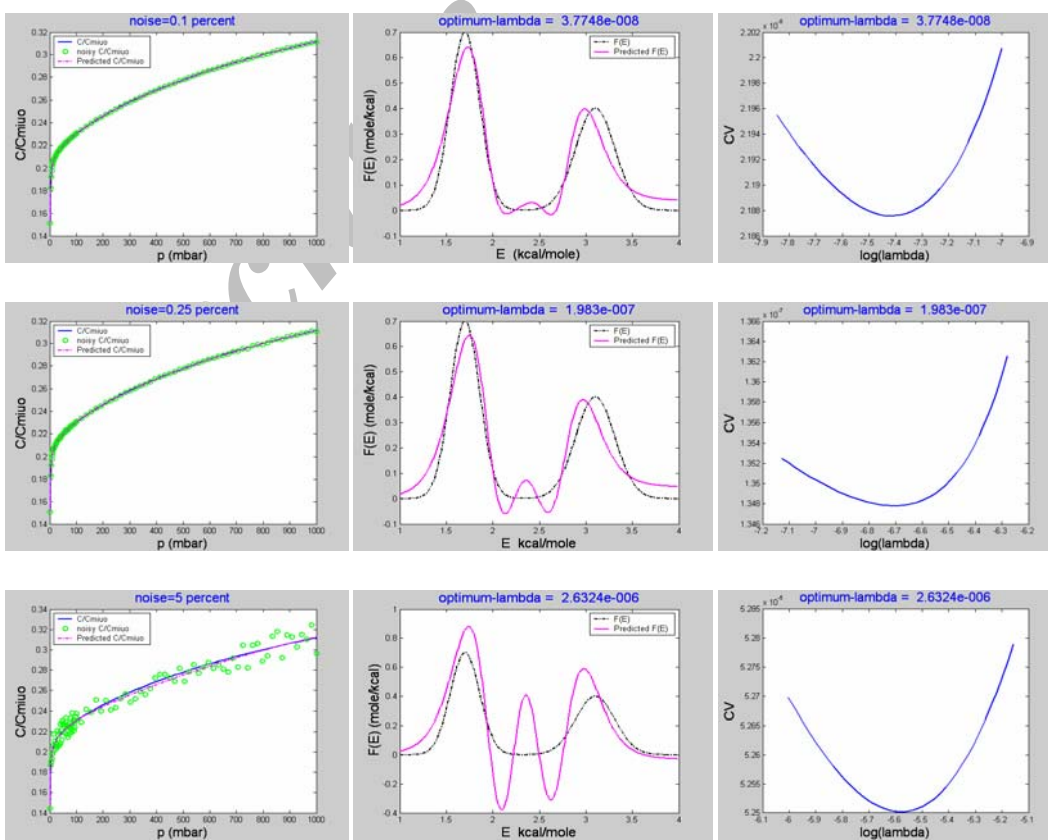
Non overlapped triple peak

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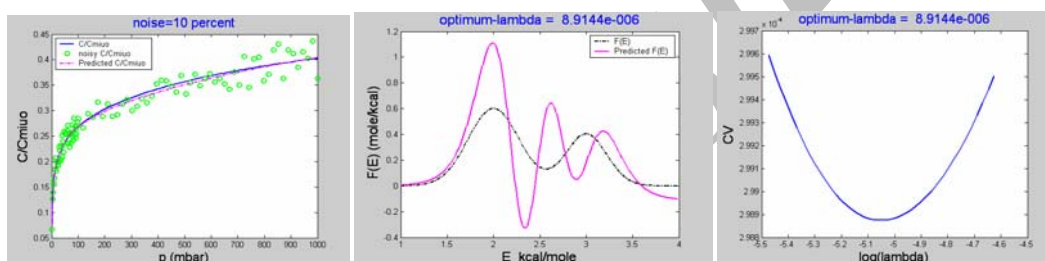
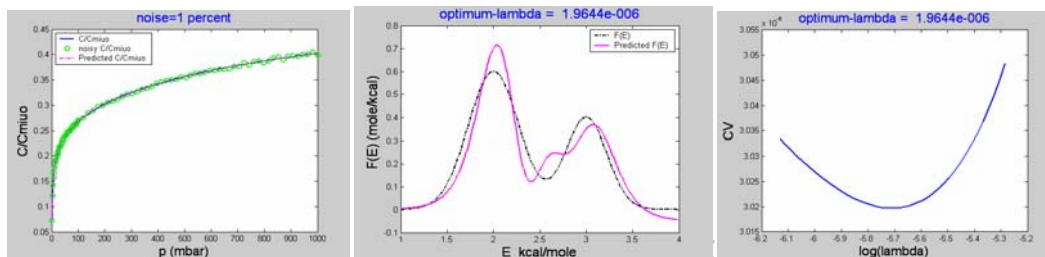
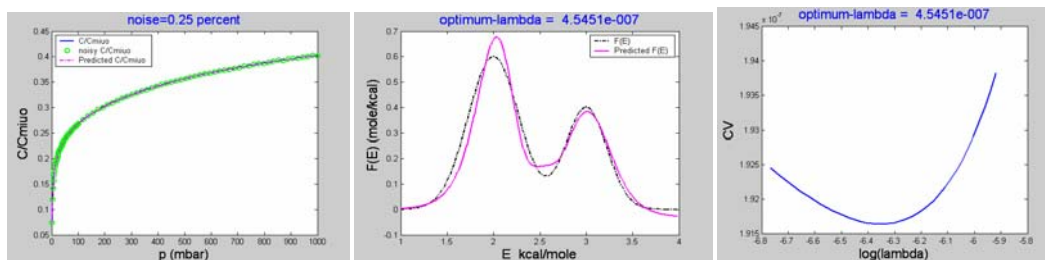
Overlapped triple peak

cv :



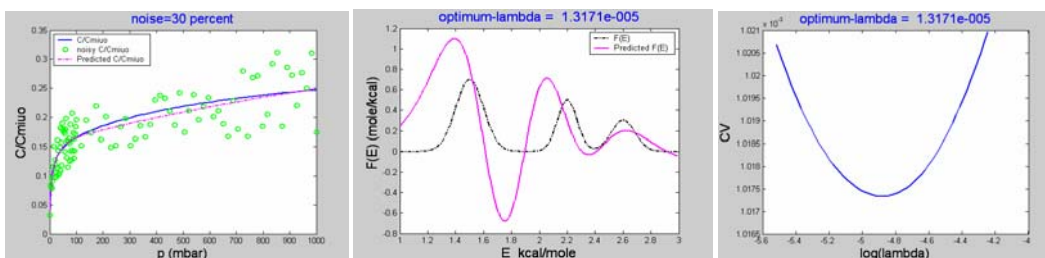
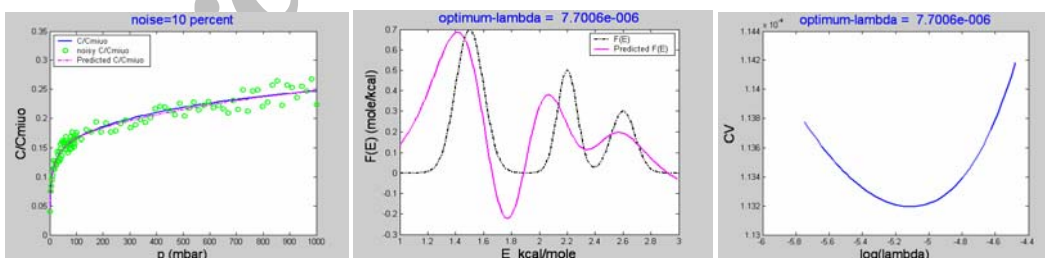
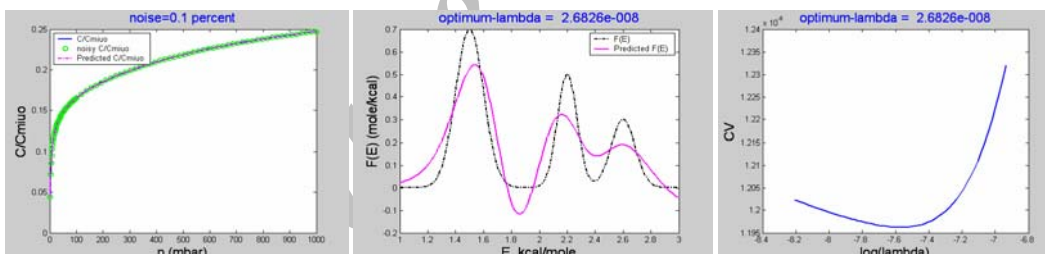
Non overlapped double peak

cv :



Overlapped double peak

cv :



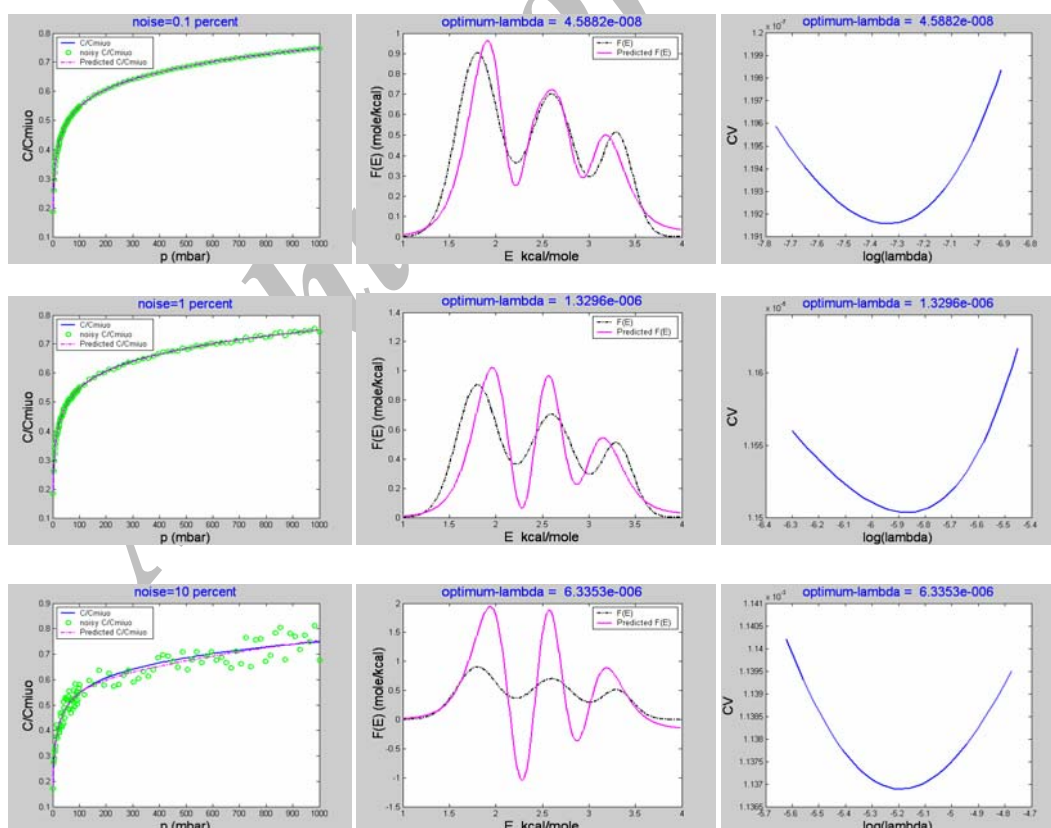
Non overlapped triple peak

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Triple

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Overlapped triple peak

cv :

- 1 - Russell, B. P. and Levan, M. D. (1994). "Pour size distribution of BPL activated carbon determined by different methods." *Carbon, ELSEVIER*, Vol. 32, No. 5, PP. 845-855.
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1 - Gaussian Distribution

2 - Local adsorption isotherm

3 - Generalized cross validation