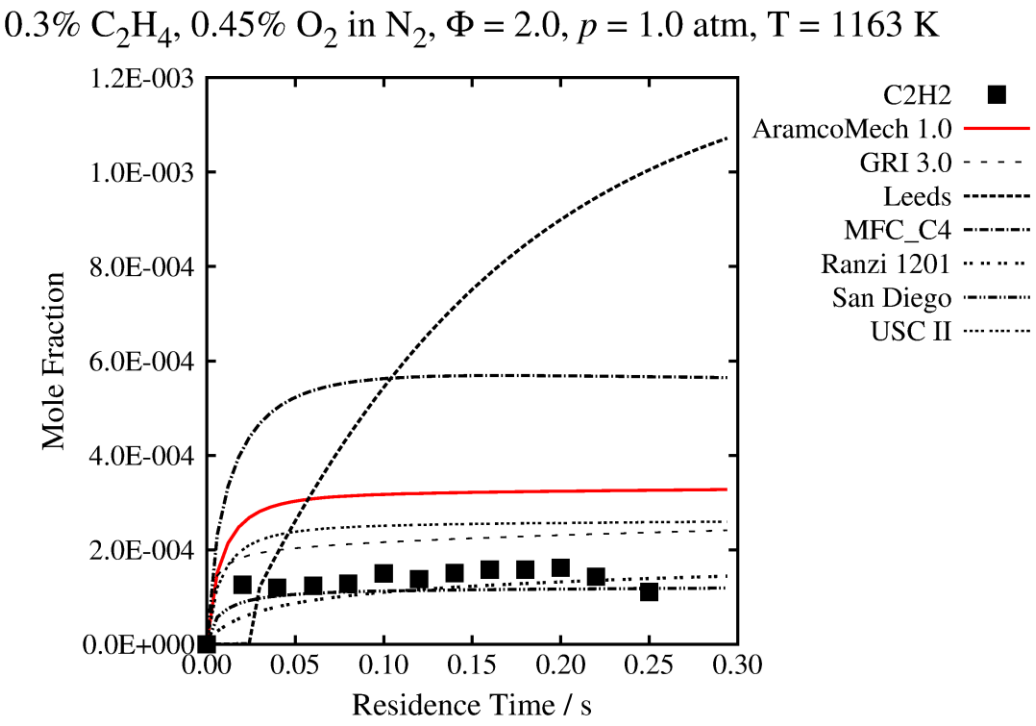
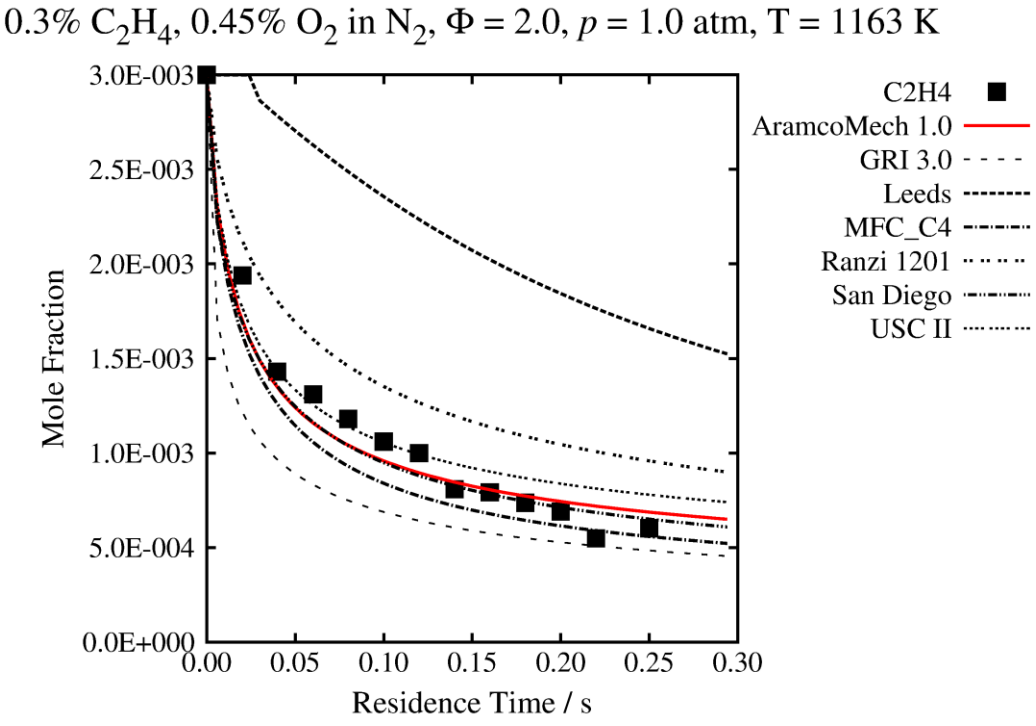
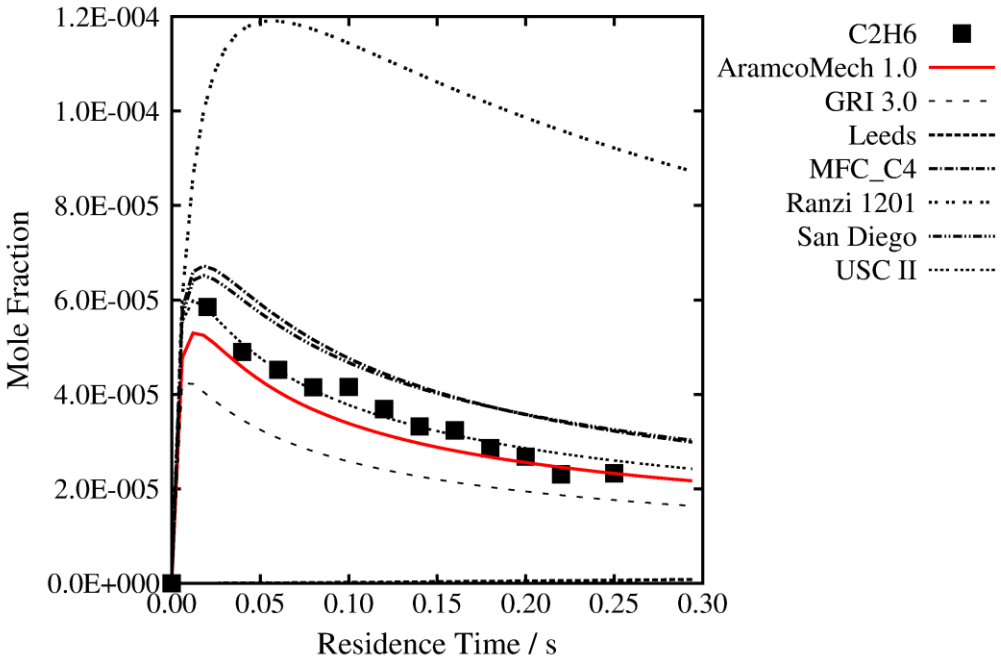
Figure 1

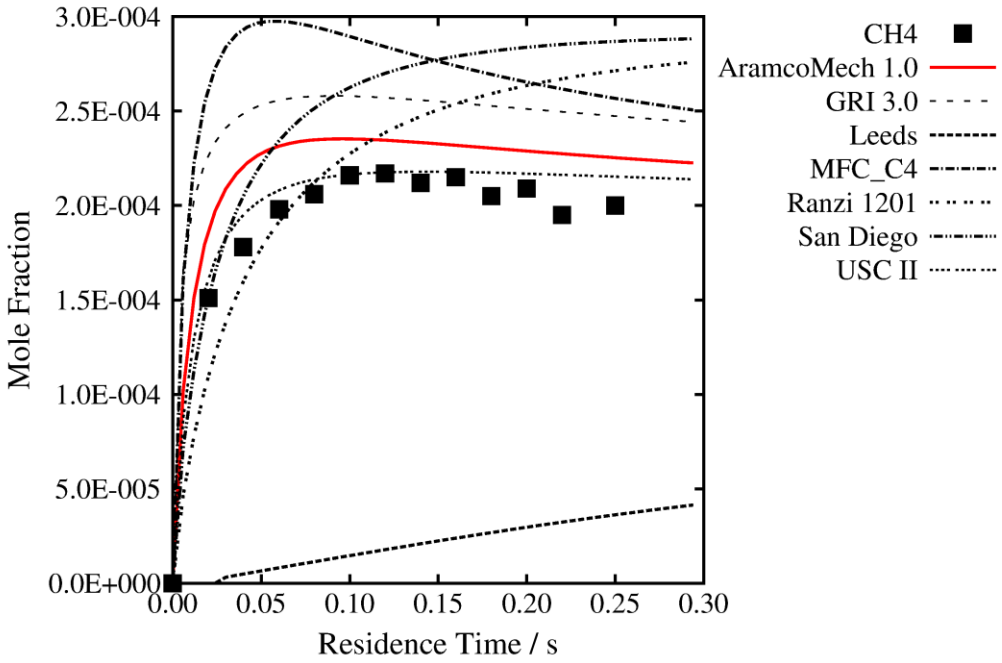

0.3% C2H4, 0.45% O2 in N2, Φ = 2.0, p = 1.0 atm, T = 1163 K
Mole Fraction
Residence Time / s
1.2E-003
1.0E-003
8.0E-004
6.0E-004
4.0E-004
2.0E-004
0.0E+000
0.00
0.05
0.10
0.15
0.20
0.25
0.30
C2H2
AramcoMech 1.0
GRI 3.0
Leeds
MFC_C4
Ranzi 1201
San Diego
USC II


0.3% C2H4, 0.45% O2 in N2, Φ = 2.0, p = 1.0 atm, T = 1163 K
Mole Fraction
Residence Time / s
3.0E-003
2.5E-003
2.0E-003
1.5E-003
1.0E-003
5.0E-004
0.0E+000
0.00
0.05
0.10
0.15
0.20
0.25
0.30
C2H4
AramcoMech 1.0
GRI 3.0
Leeds
MFC_C4
Ranzi 1201
San Diego
USC II

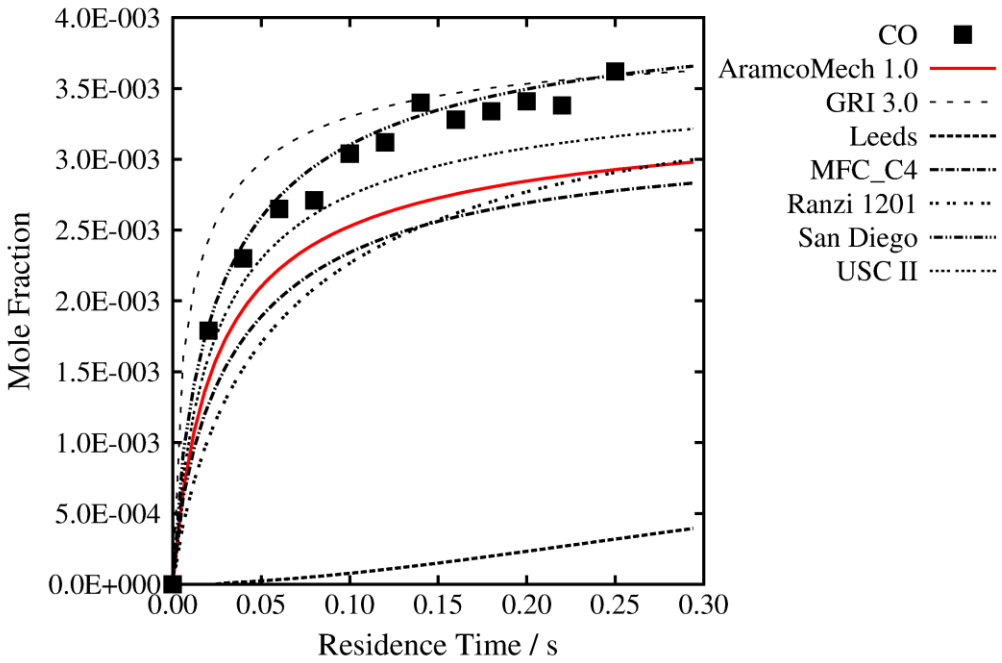
0.3% C_2H_4, 0.45% O_2 in N_2, Φ = 2.0, p = 1.0 atm, T = 1163 K



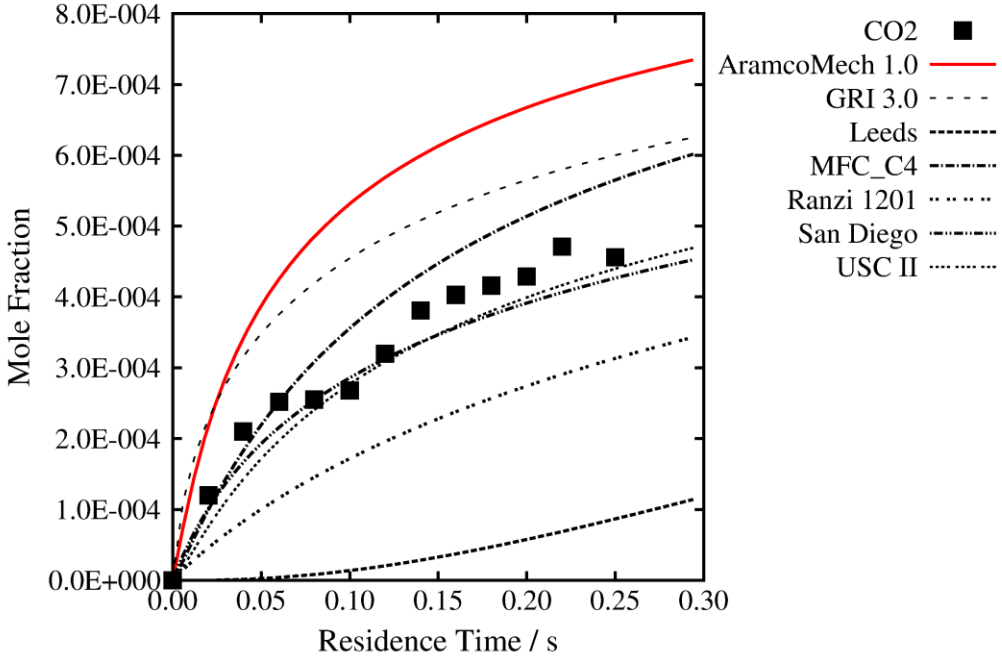
0.3% C_2H_4, 0.45% O_2 in N_2, Φ = 2.0, p = 1.0 atm, T = 1163 K



0.3% C_2H_4, 0.45% O_2 in N_2, Φ = 2.0, p = 1.0 atm, T = 1163 K



0.3% C_2H_4, 0.45% O_2 in N_2, Φ = 2.0, p = 1.0 atm, T = 1163 K



0.3% C_2H_4, 0.45% O_2 in N_2, Φ = 2.0, p = 1.0 atm, T = 1163 K

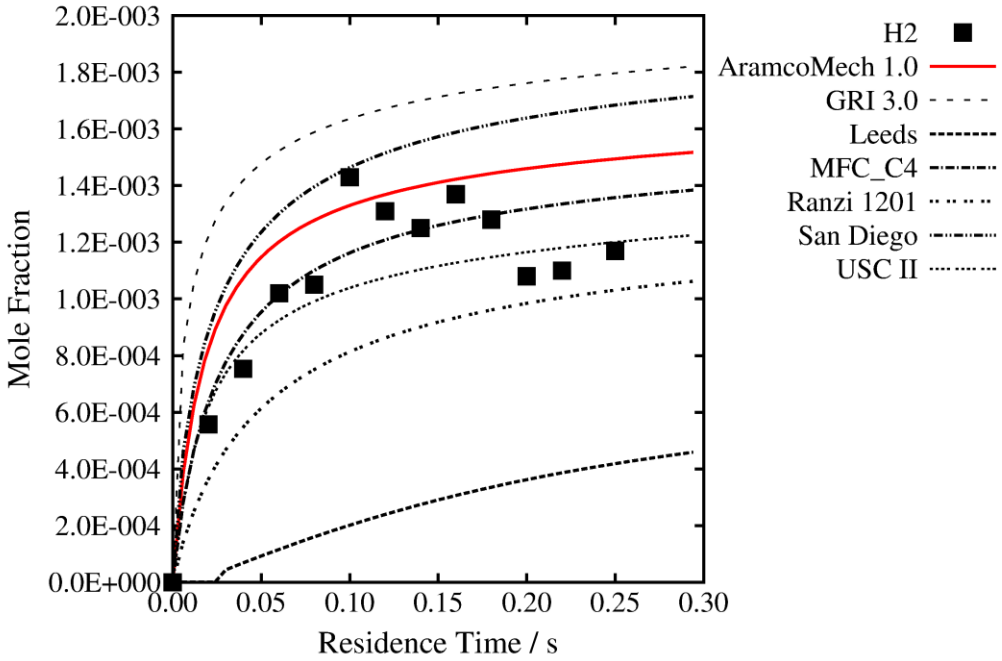
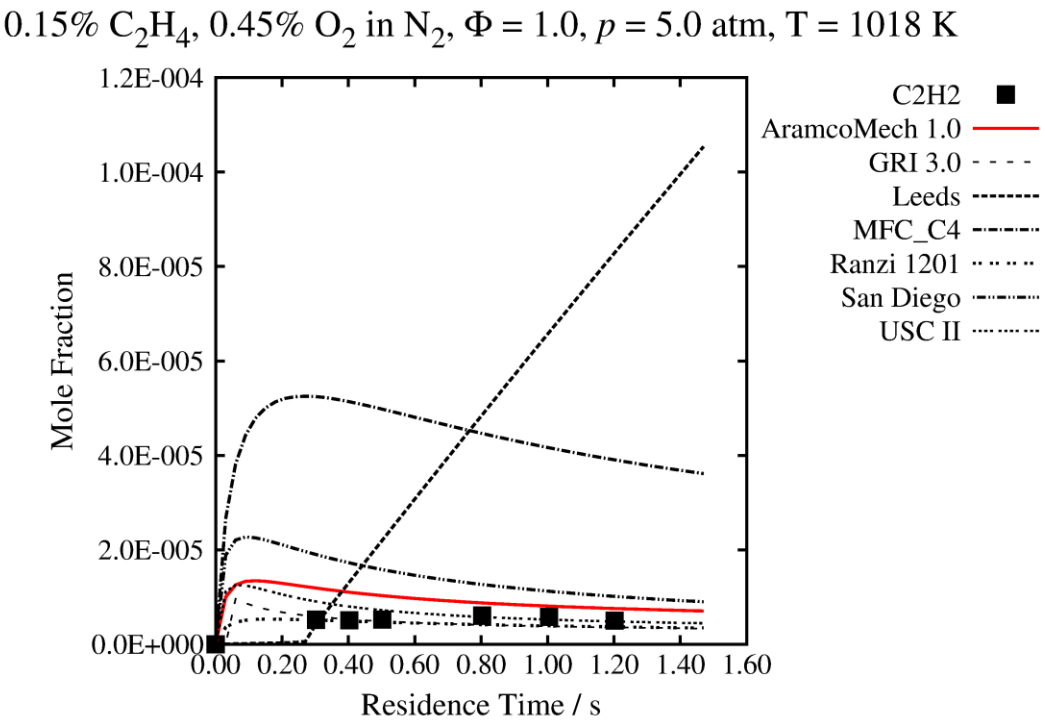
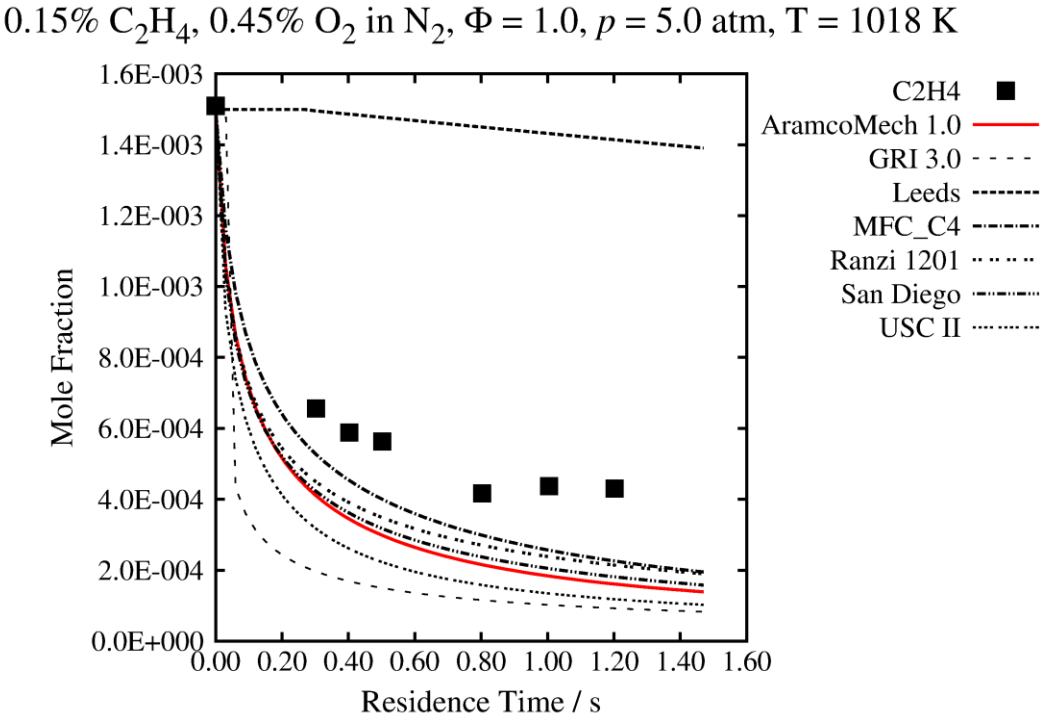
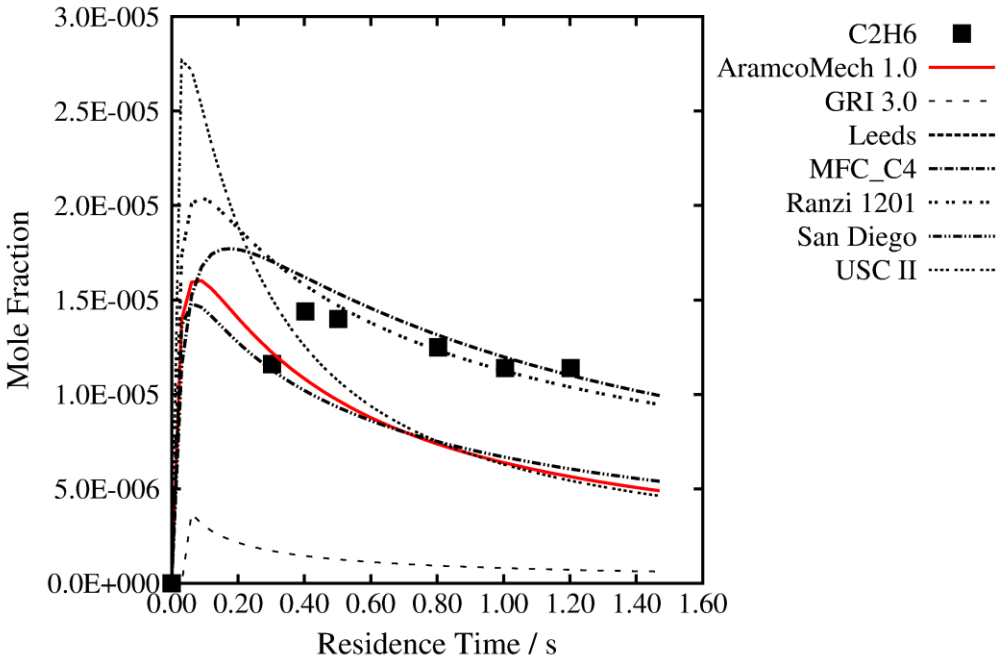


Figure 2

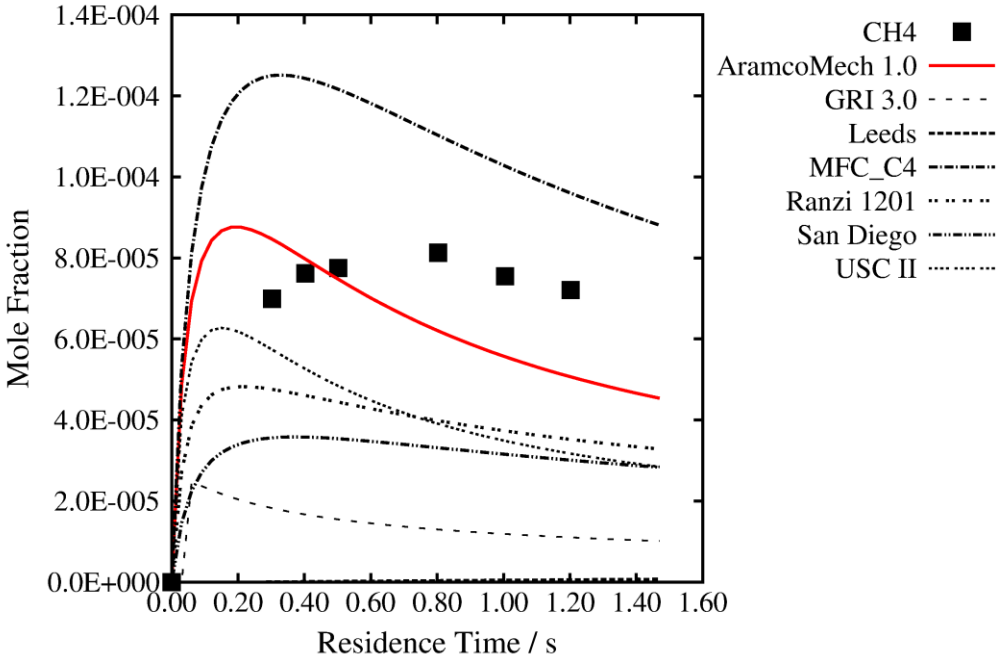

0.15% C2H4, 0.45% O2 in N2, Φ = 1.0, p = 5.0 atm, T = 1018 K
Mole Fraction
1.2E-004
1.0E-004
8.0E-005
6.0E-005
4.0E-005
2.0E-005
0.0E+000
0.00 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60
Residence Time / s
C2H2
AramcoMech 1.0
GRI 3.0
Leeds
MFC_C4
Ranzi 1201
San Diego
USC II


0.15% C2H4, 0.45% O2 in N2, Φ = 1.0, p = 5.0 atm, T = 1018 K
Mole Fraction
1.6E-003
1.4E-003
1.2E-003
1.0E-003
8.0E-004
6.0E-004
4.0E-004
2.0E-004
0.0E+000
0.00 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60
Residence Time / s
C2H4
AramcoMech 1.0
GRI 3.0
Leeds
MFC_C4
Ranzi 1201
San Diego
USC II

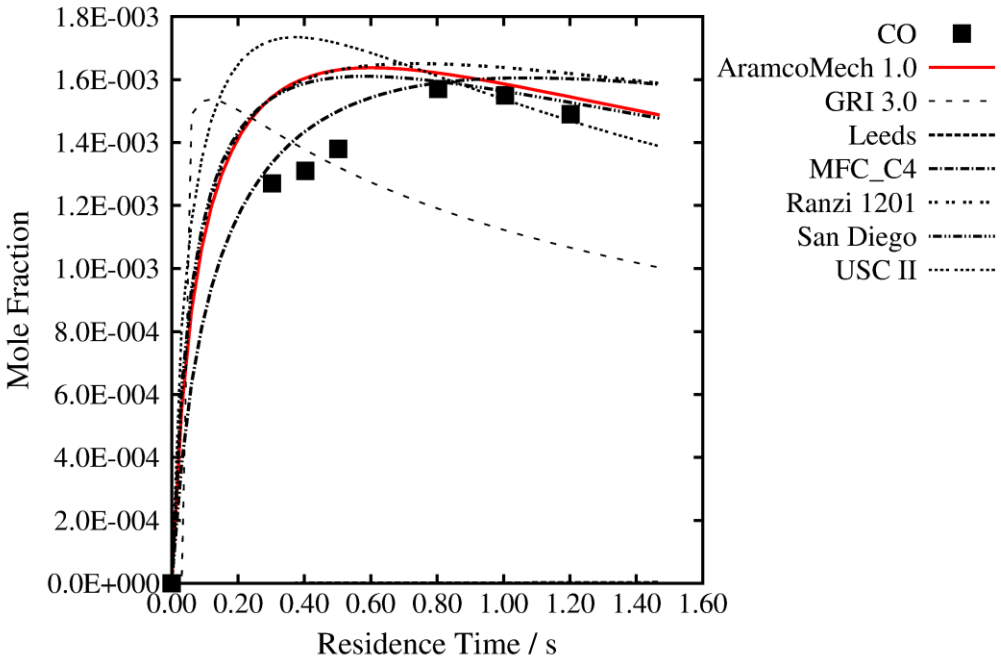
0.15% C_2H_4, 0.45% O_2 in N_2, Φ = 1.0, p = 5.0 atm, T = 1018 K



0.15% C_2H_4, 0.45% O_2 in N_2, Φ = 1.0, p = 5.0 atm, T = 1018 K



0.15% C_2H_4, 0.45% O_2 in N_2, Φ = 1.0, p = 5.0 atm, T = 1018 K



0.15% C_2H_4, 0.45% O_2 in N_2, Φ = 1.0, p = 5.0 atm, T = 1018 K

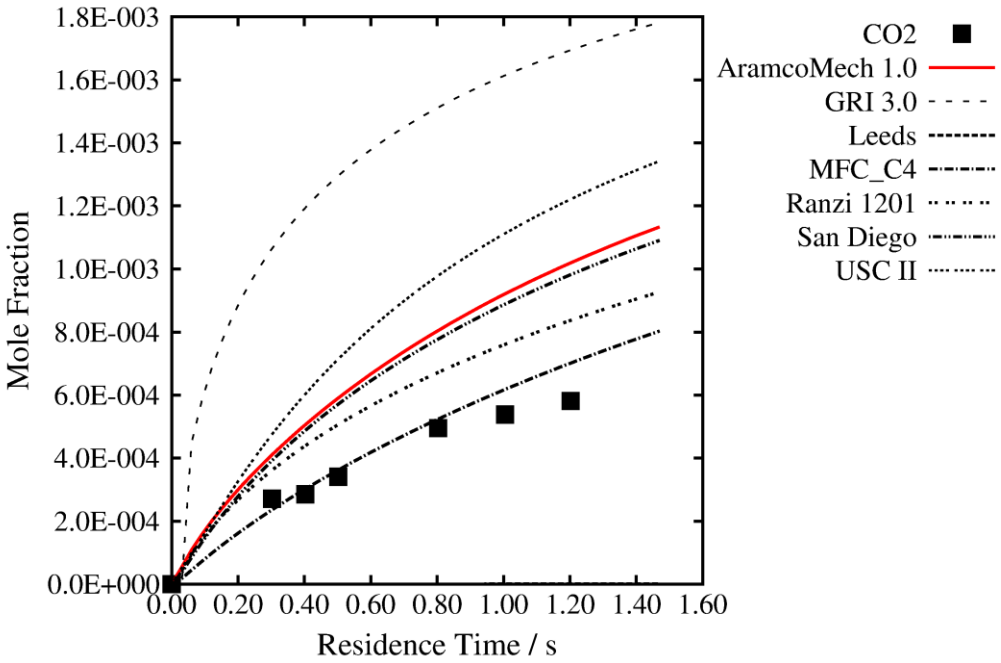
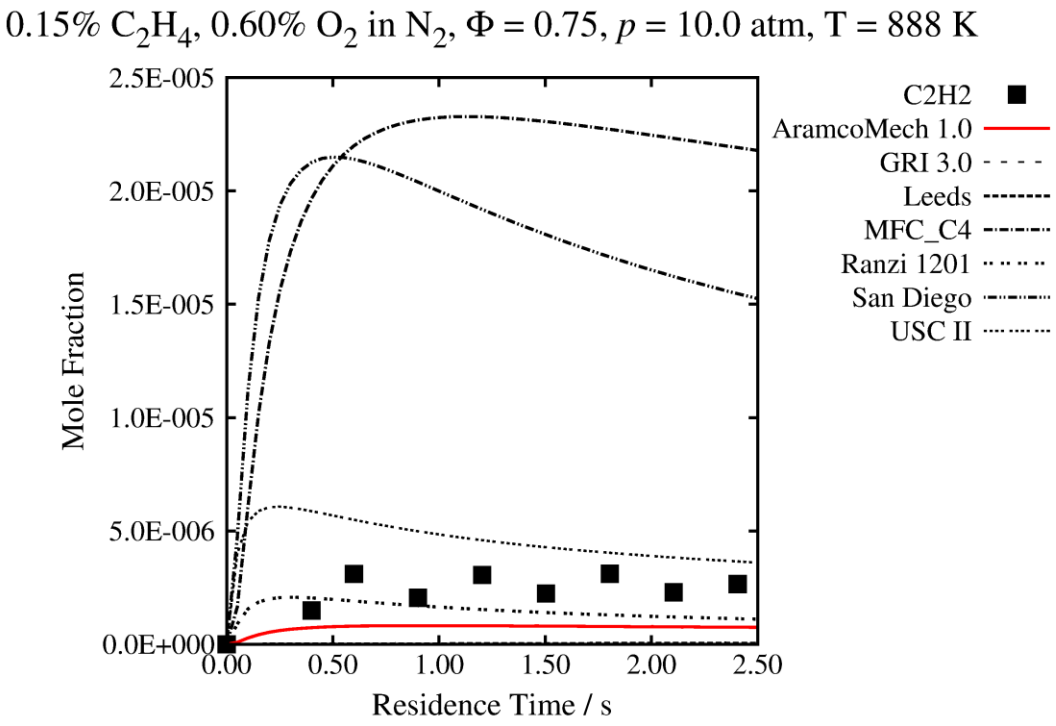
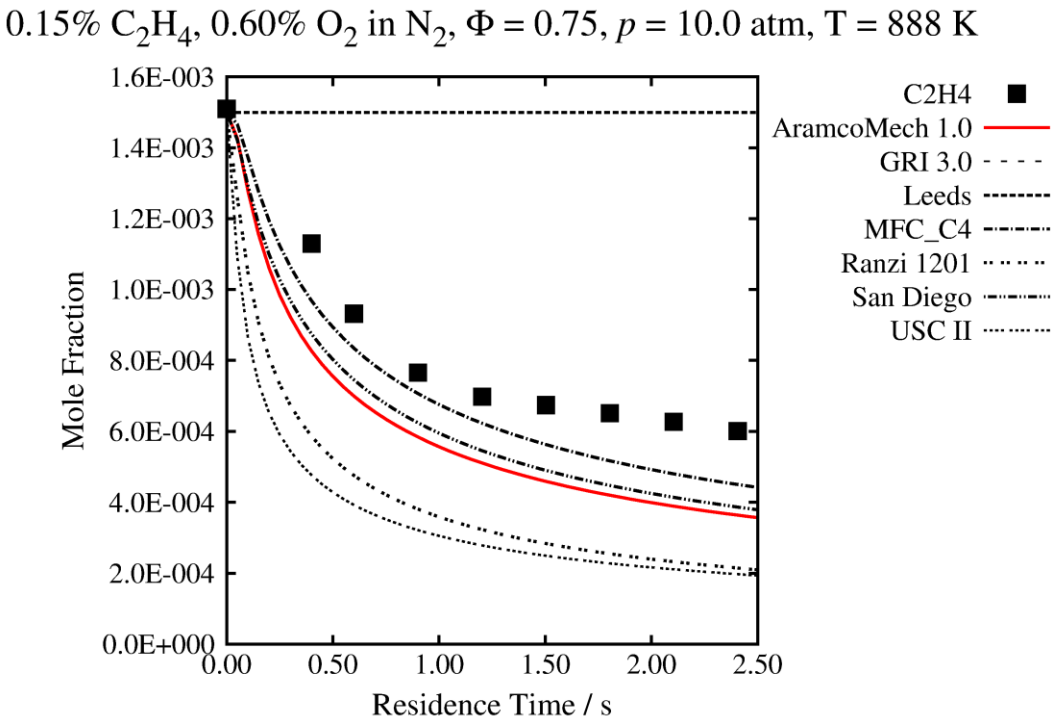
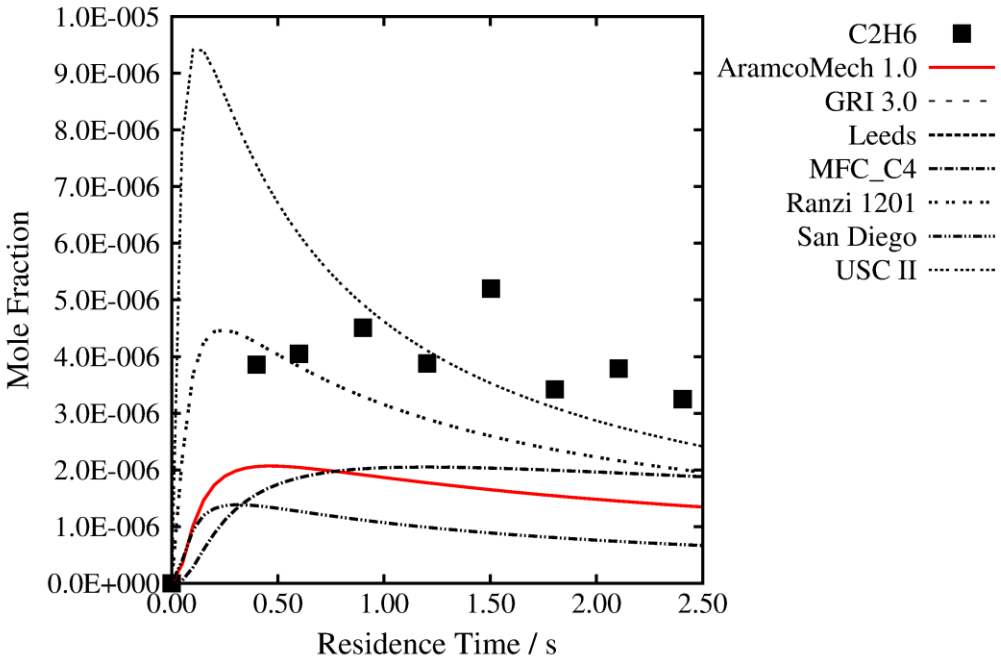


Figure 3

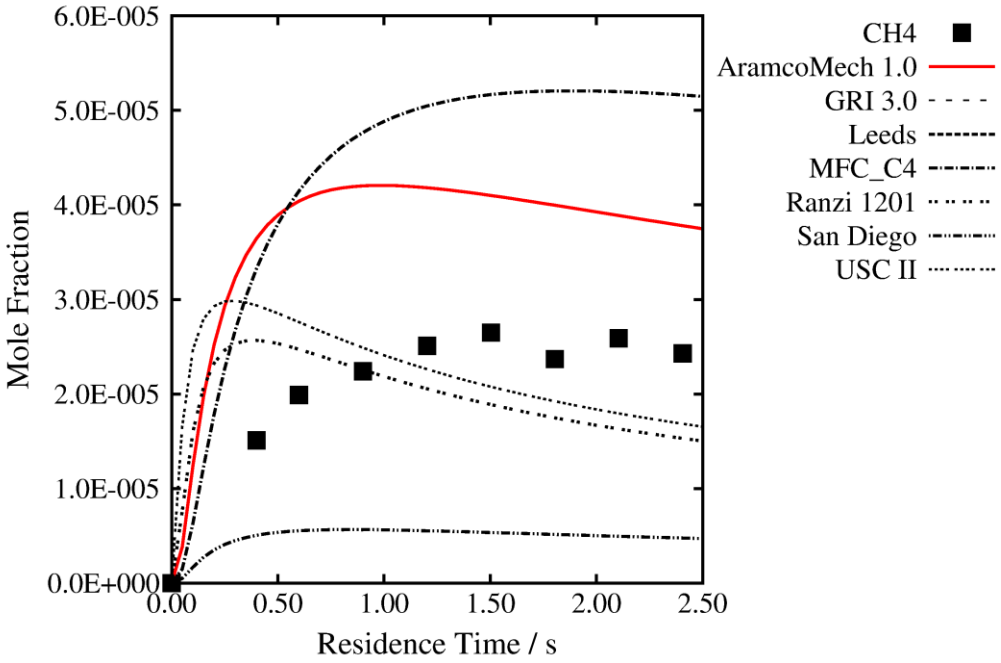

0.15% C2H4, 0.60% O2 in N2, Φ = 0.75, p = 10.0 atm, T = 888 K
Mole Fraction
2.5E-005
2.0E-005
1.5E-005
1.0E-005
5.0E-006
0.0E+000
0.00
0.50
1.00
1.50
2.00
2.50
Residence Time / s
C2H2
AramcoMech 1.0
GRI 3.0
Leeds
MFC_C4
Ranzi 1201
San Diego
USC II


0.15% C2H4, 0.60% O2 in N2, Φ = 0.75, p = 10.0 atm, T = 888 K
Mole Fraction
1.6E-003
1.4E-003
1.2E-003
1.0E-003
8.0E-004
6.0E-004
4.0E-004
2.0E-004
0.0E+000
0.00
0.50
1.00
1.50
2.00
2.50
Residence Time / s
C2H4
AramcoMech 1.0
GRI 3.0
Leeds
MFC_C4
Ranzi 1201
San Diego
USC II

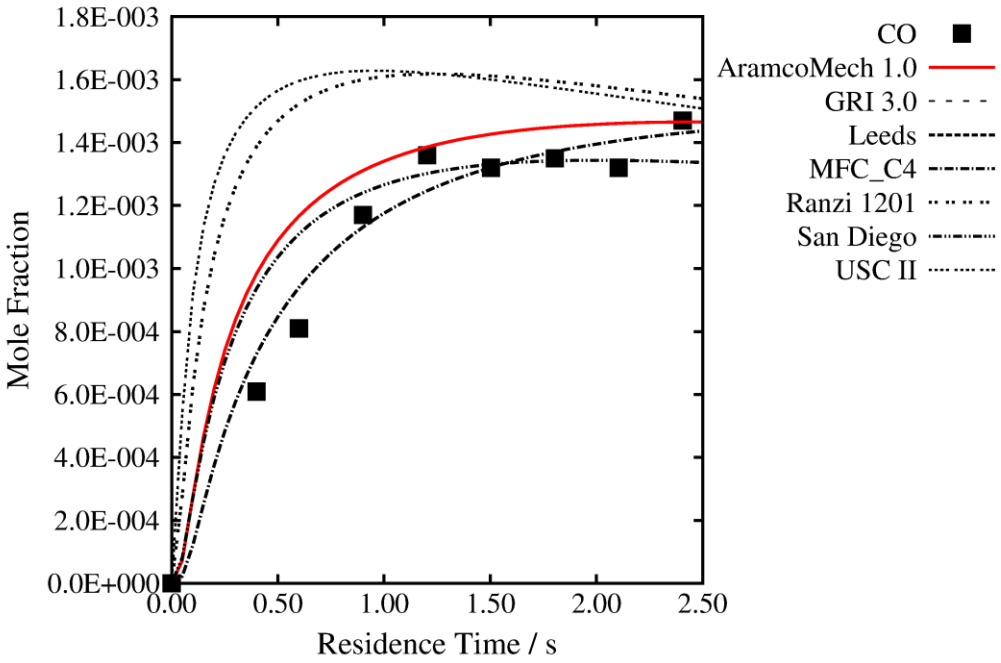
0.15% C_2H_4, 0.60% O_2 in N_2, Φ = 0.75, p = 10.0 atm, T = 888 K



0.15% C_2H_4, 0.60% O_2 in N_2, Φ = 0.75, p = 10.0 atm, T = 888 K



0.15% C_2H_4, 0.60% O_2 in N_2, Φ = 0.75, p = 10.0 atm, T = 888 K



0.15% C_2H_4, 0.60% O_2 in N_2, Φ = 0.75, p = 10.0 atm, T = 888 K

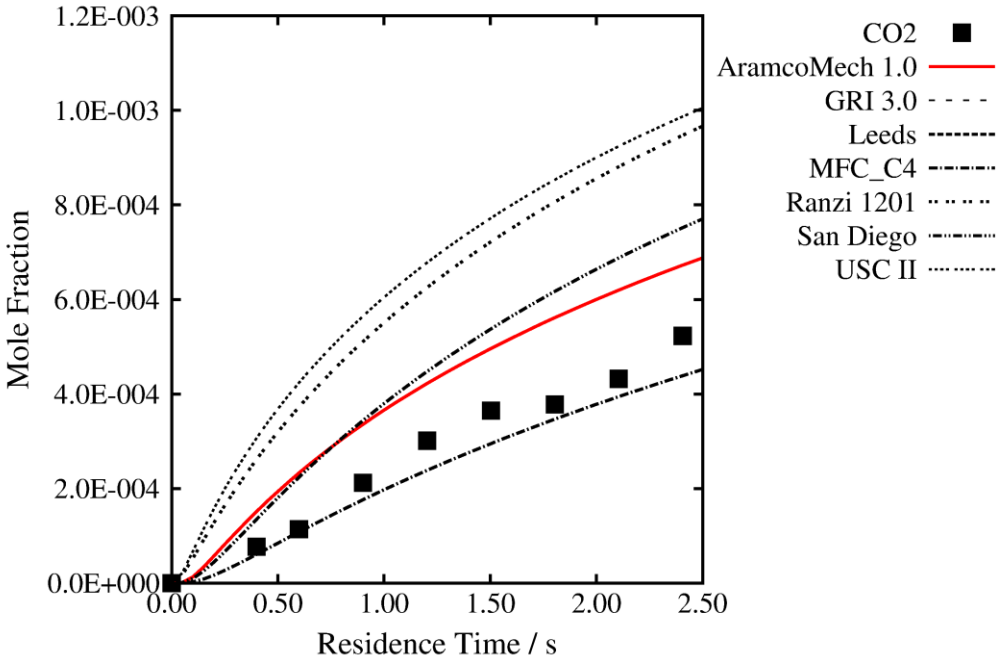
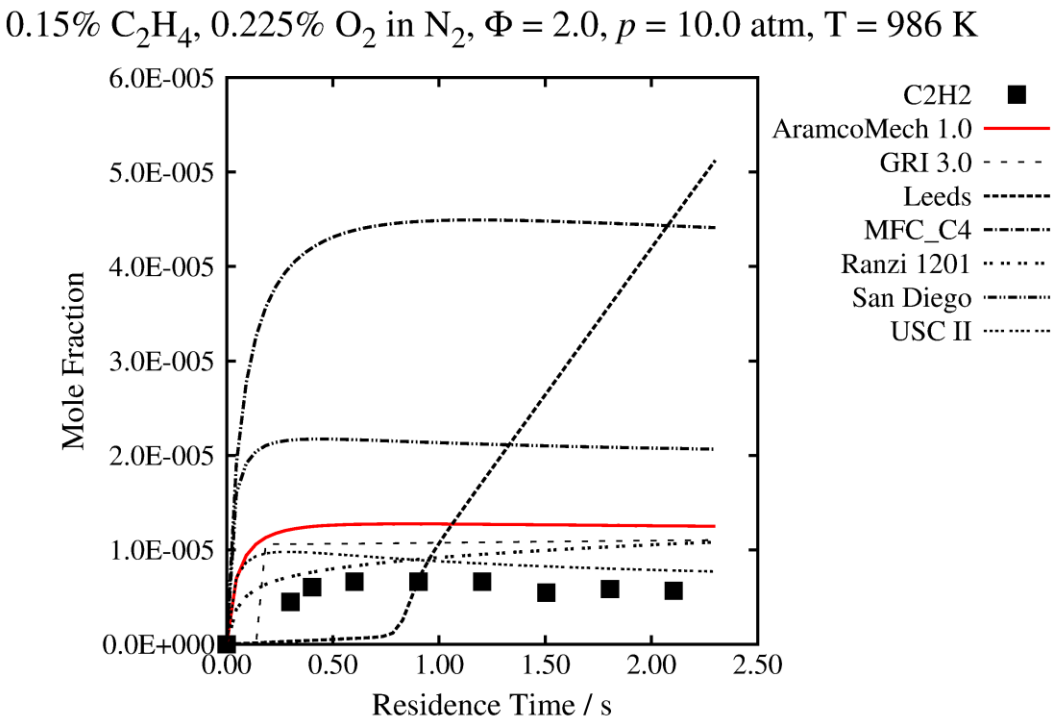
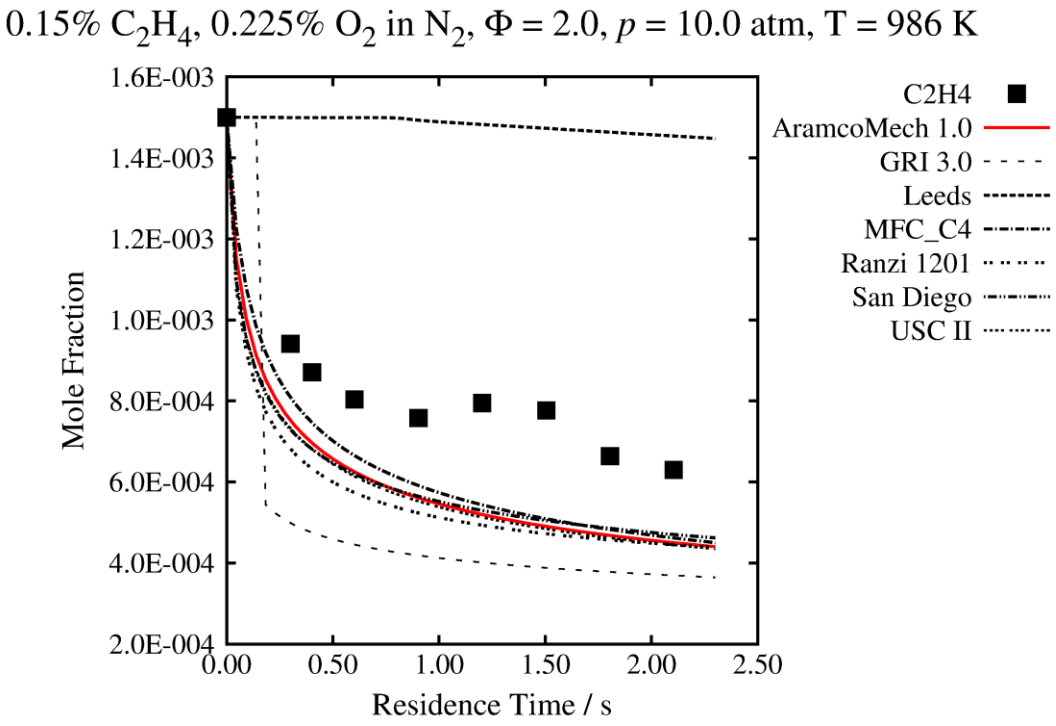
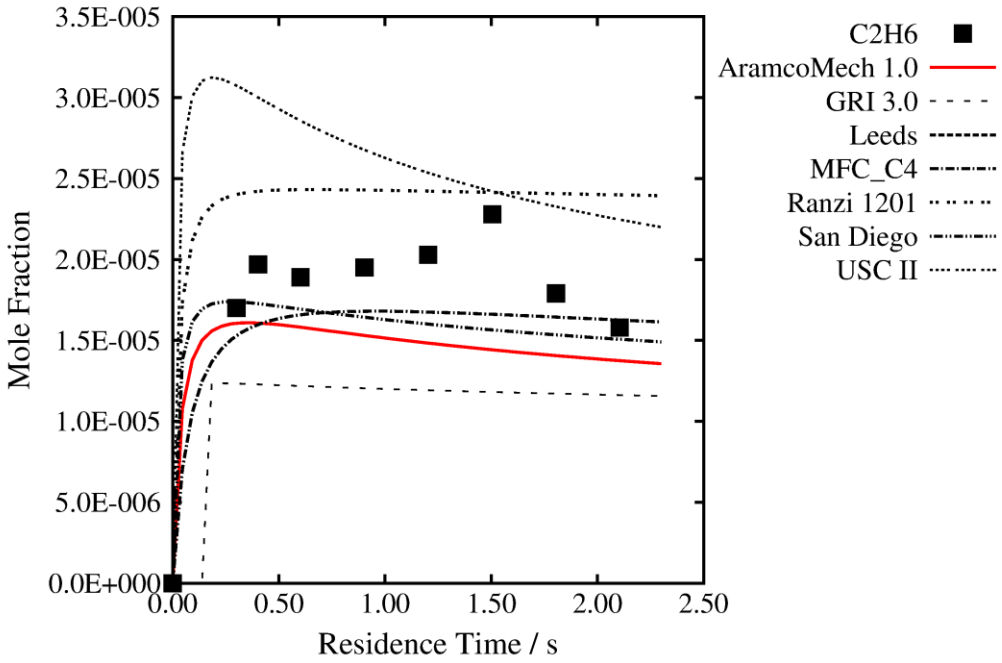


Figure 4

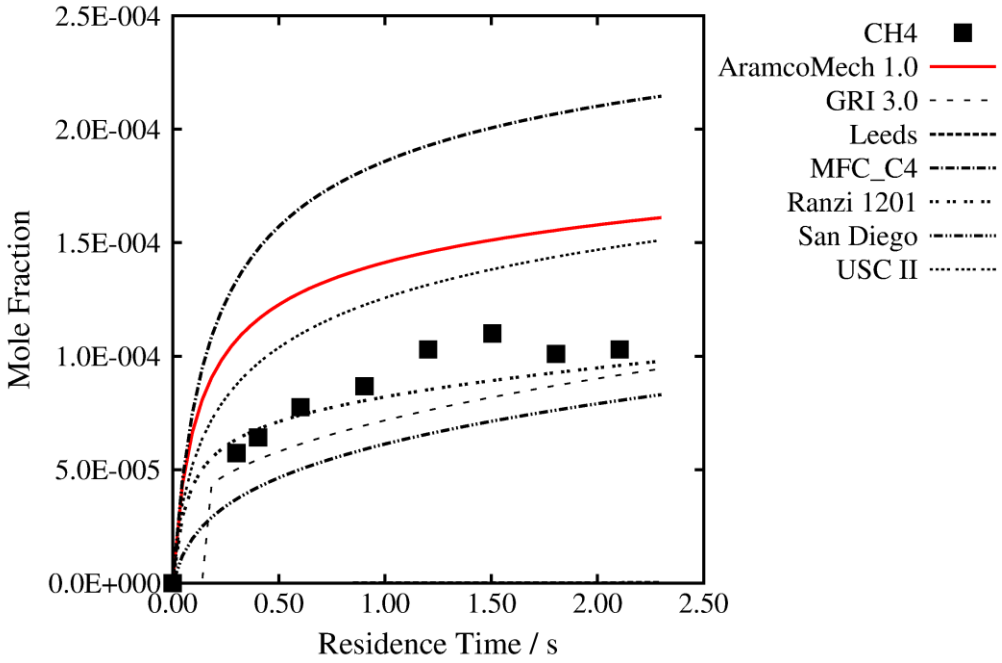

0.15% C2H4, 0.225% O2 in N2, Φ = 2.0, p = 10.0 atm, T = 986 K
Mole Fraction
6.0E-005
5.0E-005
4.0E-005
3.0E-005
2.0E-005
1.0E-005
0.0E+000
0.00
0.50
1.00
1.50
2.00
2.50
Residence Time / s
C2H2
AramcoMech 1.0
GRI 3.0
Leeds
MFC_C4
Ranzi 1201
San Diego
USC II


0.15% C2H4, 0.225% O2 in N2, Φ = 2.0, p = 10.0 atm, T = 986 K
Mole Fraction
1.6E-003
1.4E-003
1.2E-003
1.0E-003
8.0E-004
6.0E-004
4.0E-004
2.0E-004
0.00
0.50
1.00
1.50
2.00
2.50
Residence Time / s
C2H4
AramcoMech 1.0
GRI 3.0
Leeds
MFC_C4
Ranzi 1201
San Diego
USC II

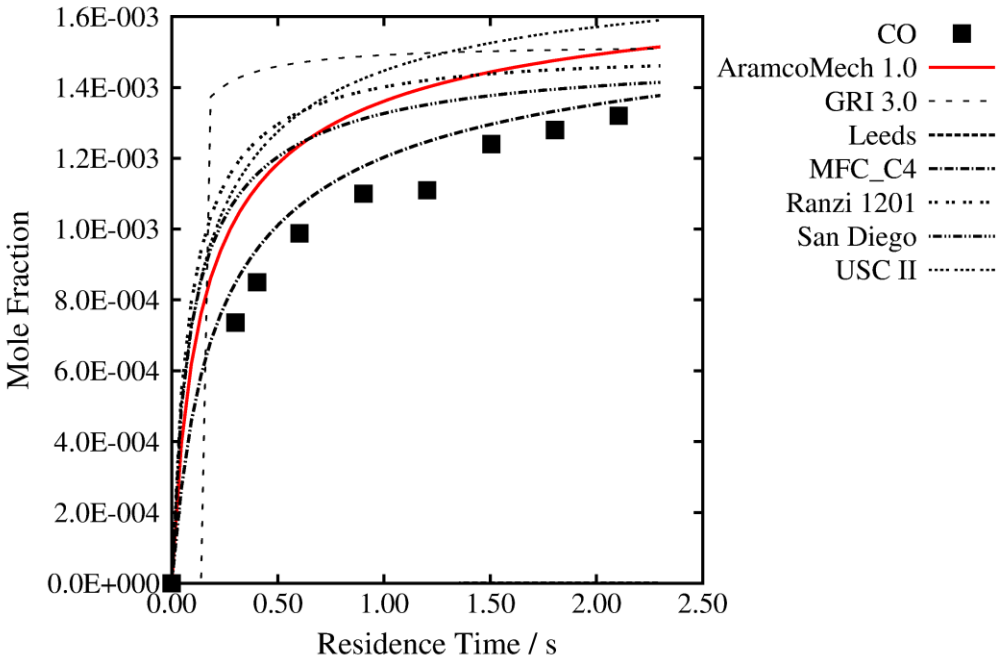
0.15% C_2H_4, 0.225% O_2 in N_2, Φ = 2.0, p = 10.0 atm, T = 986 K



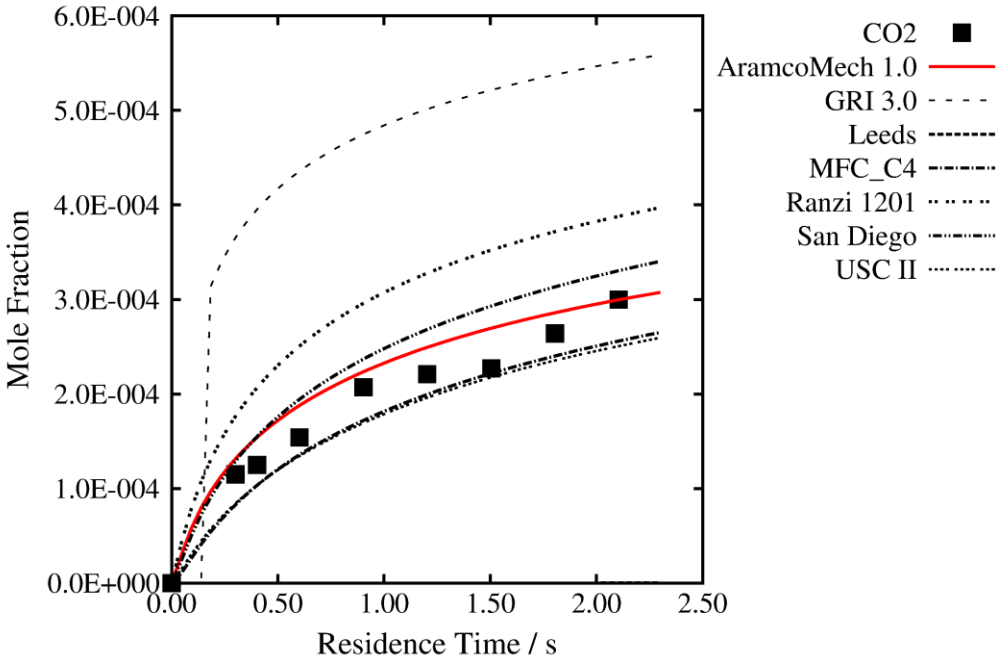
0.15% C_2H_4, 0.225% O_2 in N_2, Φ = 2.0, p = 10.0 atm, T = 986 K



0.15% C_2H_4, 0.225% O_2 in N_2, Φ = 2.0, p = 10.0 atm, T = 986 K



0.15% C_2H_4, 0.225% O_2 in N_2, Φ = 2.0, p = 10.0 atm, T = 986 K



0.3% C_2H_4, 0.45% O_2 in N_2, Φ = 2.0, p = 1.0 atm, T = 1163 K