Example 10.3

Result

(a)P and [yi] for T=318.15K and x1=0.25

BUBL P calculations

P =

73.52

KPa

y1 =

0.282

y2 =

0.718

(b)P and [xi] for T=318.15K and y1=0.60

DEW P calculations

P =

62.89

kPa

x1 =

0.8168

x2 =

0.1832

(c)T and [yi] for P=101.33kPa and x1=0.

BUBL T calculations

Temperature =

331.2

K

y1 =

0.67

y2 =

0.33

(d)T and [xi] for P=101.33kPa and y1=0.40

DEW T calculations

T =

326.69

K

x1 =

0.4598

x2 =

0.5402

Azeotropic Pressure and Azeotropic Composition for T = 318.15K

Azeotropic Pressure =

73.71

KPa

x1_az

0.325

y1_az

0.325