

Problem 1

a.)

False. For reactors we usually use the k -eigenvalue because reactors above or below criticality would have alpha eigenvalues oscillating above and below zero, leading to instabilities.

b.)

c.)

d.)

e.)

f.)

Problem 2

Problem 3

a.)

b.)

Problem 4

Problem 5

Problem 6

Problem 7

a.)

b.)

c.)

d.)

e.)