**HW#6**

**[1]**

**(a)**

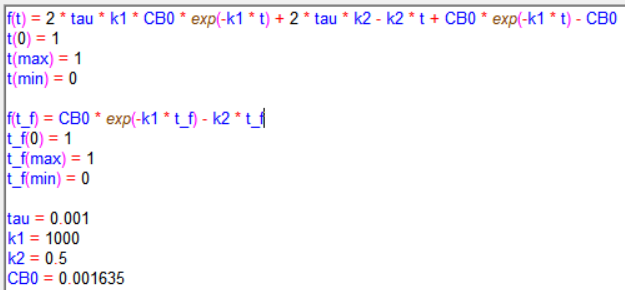


Figure 1. Polymath coding of parallel CSTR

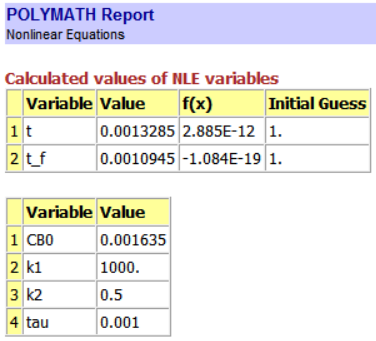


Figure 2. Polymath report of parallel CSTR

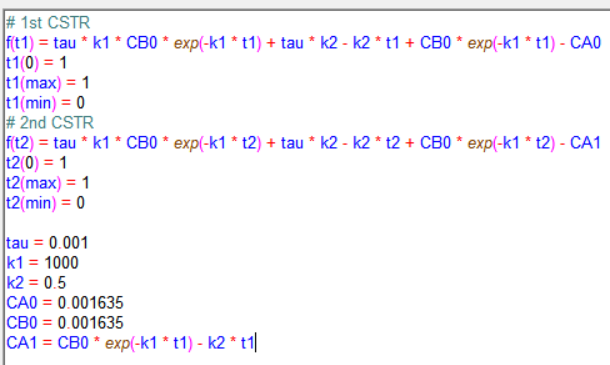


Figure 3. Polymath coding of series CSTR

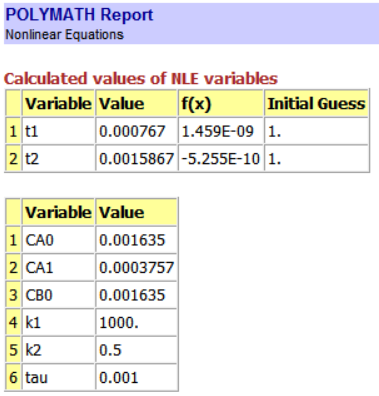


Figure 4. Polymath report of series CSTR

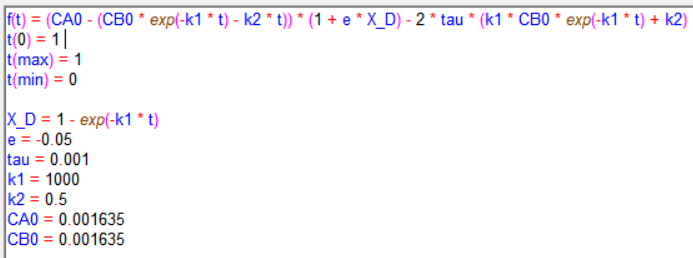


Figure 5. Polymath coding of parallel CSTR, nonzero ε

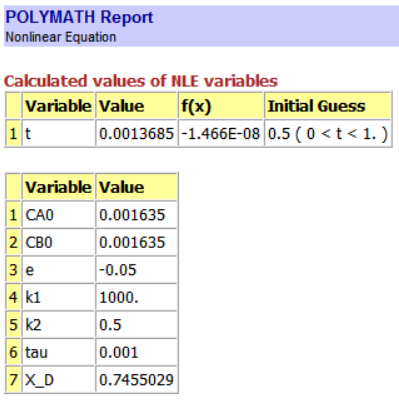


Figure 6. Polymath report of parallel CSTR, nonzero ε

**[P6-13]**

**(a)**

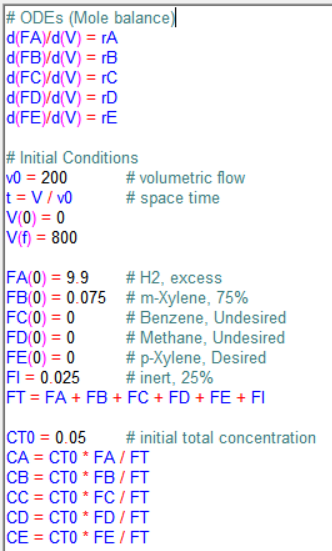
 

Figure 7. Polymath coding

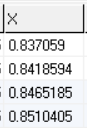
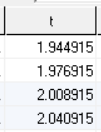


Figure 8. Space time near X=0.85

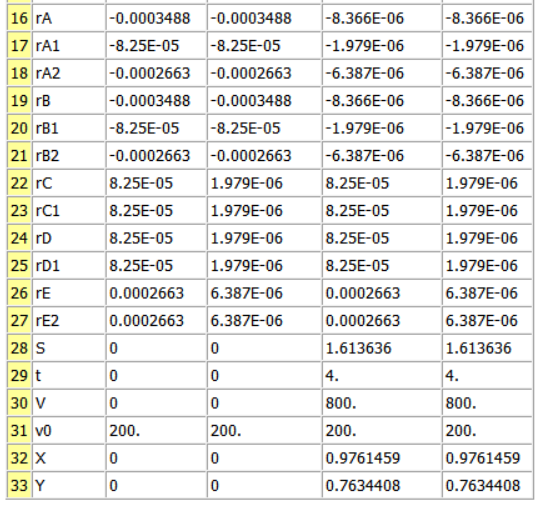
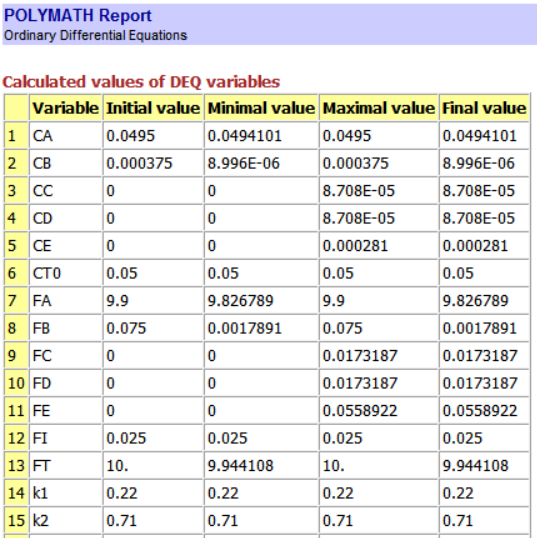


Figure 9. Polymath report

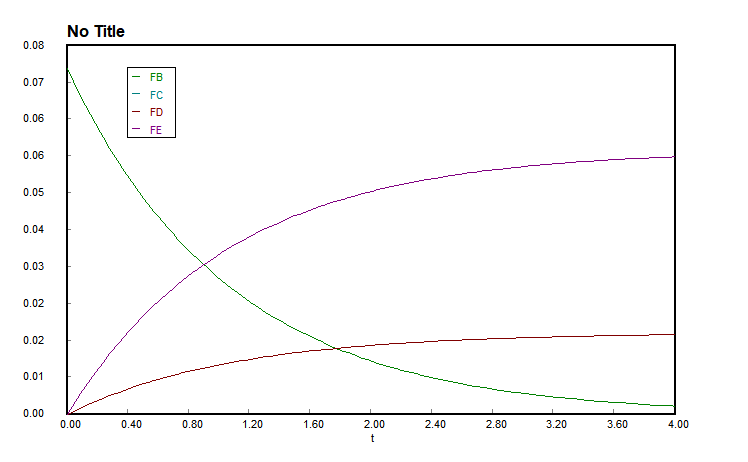


Figure 10. Graph of space time & molar flow rate

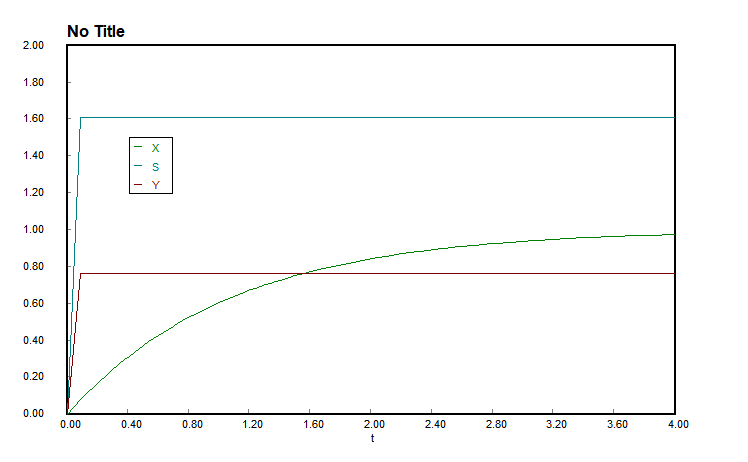


Figure 11. Graph of space time & conversion, overall selectivity, overall yield

(b)

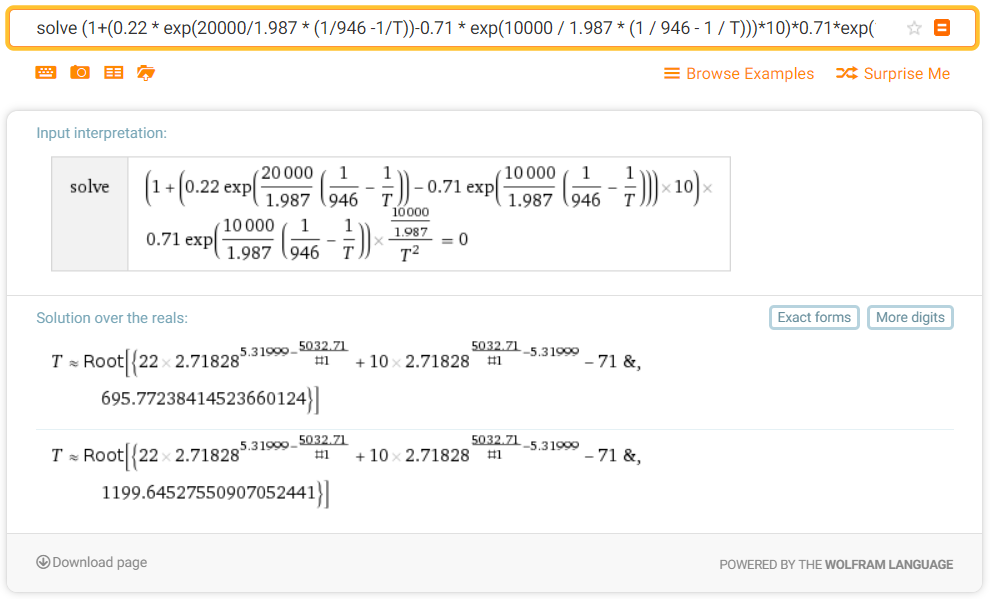


Figure 12. Solution of dCE/dT=0