**South Dakota School of Mines and Technology**

**Department of Materials and Metallurgical Engineering**

MET 624 HMWK #7 Due: April 2

1. Derive your below assigned dependent variable slope for the Ni-NiO reactor.

X

Y

Tg

Ts

Typeset your derivation using Equation Editor in Word for distribution to your peers.

1. Derive your below assigned form of the resistances or overall driving force for the shrinking core model for NiO reduction to Ni.

R1, R2, R3, R4, and R5