Symbols and Abbrevation

A	Pre-expoential Factor
B	Heating Rate (°C/min)
Cp	Heat capacity(kJ/kg K)
d	Inter-planner Spacing
dia	Diameter
DSC	Differential Scanning calorimeter
DTA	Differential Thermal Analysis
DTG	Differential Thermal Gravimetry
E	Activation Energy
e	Void fraction
L	Thickness of specimen
I/Io	Ratio of Intensity
k	Parameter
k'	Another parameter
K	Thermal conductivity
Ke	Effective thermal conductivity
Kg	Thermal conductivity of gas in pores
Ks	Thermal conductivity at zero porosity
m	Mass at any instant

m_0	Initial mass
n	Order of reaction, Parameter
P	Parameter(Ks/Kg)
R	Radius of pellet , Gas Constant (J/mol.K)
r	Radial distance
T	Temperature
Tav	Average temperature
Tc	Centre temperature
T_f	Furnace -wall temperature
T_m	Minimum temperature of DTA endothermic peak
T_{max}	Temperature of TG influx
T_0	Room temperature
Tr	Temperature at radial distance
Ts	Surface temperature
$T\infty$	(Furnace Temperature)
TG	Thermo Gravimetry
t	time
x	Fraction of reaction
x_{max}	Fraction of reaction value at maximum reaction rate
μ	Micro
α	Thermal diffusivity
ρ	Density

fraction reacted ?
fraction still to react ?

σ	Stefan- Boltzmann constant
ε	Surface emissivity of pellet