

Nuclear Theory - Course 227

APPENDIX A

<u>SYMBOL</u>	<u>NAME</u>
β	Delayed Neutron Fraction
γ	Fission Product Yield (normally with subscript to denote particular isotope, eg, γ_{xe})
ϵ	Fast Fission Factor
η	Reproduction Factor
Λ_f	Fast Neutron Non-Leakage Probability
Λ_t	Thermal Neutron Non-Leakage Probability
ν	Neutron Yield per Fission
ξ	Mean Log Energy Decrement
Σ	Macroscopic Neutron Cross Section
σ	Microscopic Neutron Cross Section
T	Reactor Period
ϕ	Neutron Flux
f	Thermal Utilization Factor
k	Neutron Multiplication Factor
Δk	Reactivity
ℓ	Neutron Lifetime
N	Number Density
S_0	Primary Source Strength
S_∞	Effective Source Strength
p	Resonance Escape Probability