

## Nuclear Theory - Course 227

APPENDIX A

<u>SYMBOL</u>	<u>NAME</u>
$\beta$	Delayed Neutron Fraction
$\gamma$	Fission Product Yield (normally with subscript to denote particular isotope, eg, $\gamma_{xe}$ )
$\epsilon$	Fast Fission Factor
$\eta$	Reproduction Factor
$\Lambda_f$	Fast Neutron Non-Leakage Probability
$\Lambda_t$	Thermal Neutron Non-Leakage Probability
$\nu$	Neutron Yield per Fission
$\xi$	Mean Log Energy Decrement
$\Sigma$	Macroscopic Neutron Cross Section
$\sigma$	Microscopic Neutron Cross Section
$T$	Reactor Period
$\phi$	Neutron Flux
$f$	Thermal Utilization Factor
$k$	Neutron Multiplication Factor
$\Delta k$	Reactivity
$\ell$	Neutron Lifetime
$N$	Number Density
$S_0$	Primary Source Strength
$S_\infty$	Effective Source Strength
$p$	Resonance Escape Probability