

**NUCLEAR POWER SCHOOL (NPS) ASSIGNMENTS IN THE REACTOR DYNAMICS SUBJECT
FOR TECHNICAL MAJORS**

TITLE AND VOLUME OF DOE FUNDAMENTALS HANDBOOK	MODULE NUMBER AND TITLE	TOPIC	ASSIGNMENT
"Nuclear Physics and Reactor Theory" Volume 2 of 2	Module 3 - "Reactor Theory (Nuclear Parameters)"	"Neutron Life Cycle"	Read pages 1 through 16.
			Do practice problems on "Neutron Life Cycle ".
		"Reactivity"	Read pages 17 through 22.
			Do practice problems on "Reactivity".
		"Reactivity Coefficients"	Read pages 23 through 29.
			Do practice problems on "Reactivity Coefficients".
		"Neutron Poisons"	Read pages 30 through 33.
			(Practice problems combined for three topics; see below)
		"Xenon"	Read pages 34 through 42.
			(Practice problems combined for three topics; see below)
		"Samarium and Other Fission Product Poisons"	Read pages 43 through 47.
			Do practice problems on the three topics of "Neutrons Poisons", "Xenon", and "Samarium and Other Fission Product Poisons".
		"Control Rods"	Read pages 48 through 58.
			Do practice problems on "Control Rods".