

**NUCLEAR POWER SCHOOL (NPS) ASSIGNMENTS IN THE PHYSICS SUBJECT
FOR NON-TECHNICAL MAJORS**

TITLE AND VOLUME OF DOE FUNDAMENTALS HANDBOOK	MODULE NUMBER AND TITLE	TOPIC	ASSIGNMENT	
"Classical Physics"	Module 1 - "Unit Systems"	"Fundamental Dimensions"	Read pages 1 through 8. Do practice problems on "Fundamental Dimensions".	
		"Unit Conversions"	Read pages 9 through 16. Do practice problems on "Unit Conversions".	
	Module 2 - "Vectors"	"Scalar and Vector Quantities"	Read pages 1 through 3. Do practice problems on "Scalar and Vector Quantities".	
		"Vector Identification"	Read pages 4 through 7. Do practice problems on "Vector Identification".	
	Module 3 - "Force and Motion"	"Newton's Laws of Motion"	Read pages 1 through 4. Do practice problems on "Newton's Laws of Motion".	
		"Momentum Principles"	Read pages 5 through 10. Do practice problems on "Momentum Principles".	
	Module 4 - "Application of Newton's Laws"	"Force and Weight"	Read pages 1 through 4. Do practice problems on "Force and Weight".	
	Module 5 - "Energy, Work, and Power"	"Energy and Work"	Read pages 1 through 5. Do practice problems on "Energy and Work".	
		"Law of Conservation of Energy"	Read pages 6 and 7. Do practice problems on "Law of Conservation of Energy".	
		"Power"	Read pages 8 through 11. Do practice problems on "Power".	
	"Nuclear Physics and Reactor Theory" Volume 1 of 2	Module 1 - "Atomic and Nuclear Physics"	"Atomic Nature of Matter"	Read pages 1 through 10. Do practice problems on "Atomic Nature of Matter".
			"Chart of the Nuclides"	Read pages 11 through 16. Do practice problems on "Chart of the Nuclides".

		the Nuclides”.
	“Mass Defect and Binding Energy”	Read pages 17 through 21. Do practice problems on “Mass Defect and Binding Energy”.

		“Modes of Radioactive Decay”	Read pages 22 through 29. Do practice problems on “Modes of Radioactive Decay”.
		“Radioactivity”	Read pages 30 through 42. Do practice problems on “Radioactivity”.
		“Neutron Interactions”	Read pages 43 through 47. Do practice problems on “Neutron Interactions”.
		“Nuclear Fission”	Read pages 48 through 55. Do practice problems on “Nuclear Fission”.