

Nuclear Training Course 427
TIMS Ref. 42007

Nuclear Theory

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NUCLEAR TRAINING DEPARTMENT

COURSE 427

NUCLEAR THEORY

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Nuclear Training Course

COURSE 427

4 - Level
2 - Science Fundamentals
7 - NUCLEAR THEORY

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427.00-0 Objectives
427.00-1 Atomic Structures
427.00-2 Radioactivity
427.00-3 Nuclear Stability and Instability
427.00-4 Activity
427.00-5 Neutrons and Neutron Interactions
427.00-6 Fission
427.00-7 Fuel, Moderator, and Reactor Arrangement

(Mechanical Maintainers do not require the following modules.)

427.00-8 Neutron Life Cycle
427.00-9 Criticality and Neutron Multiplication
427.00-10 Changes in Reactor Power with Time
427.00-11 Xenon: A Fission Product Poison
427.00-12 Reactivity Effects Due to Temperature Changes
427.00-13 Neutron Flux Control