

Reactor

What is Nuclear reactor?

A nuclear reactor, formerly known as an atomic pile, is a device used to initiate and control a self-sustained nuclear chain reaction. Nuclear reactors are used at nuclear power plants for electricity generation and in nuclear marine propulsion. They are either research reactors or power reactor.

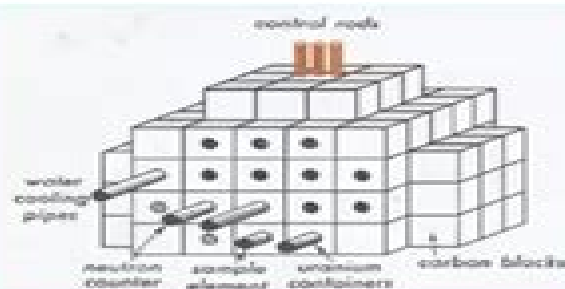
Research reactor

Research reactors are *nuclear reactors* that serve primarily as a neutron source. They are also called non-power *reactors*, in contrast to power *reactors* that are used for electricity production, heat generation, or maritime propulsion, testing materials and conducting basic research.

Nuclear Power Reactors

A nuclear reactor or nuclear power plant consists of nuclear reactor fuel, control rods, moderators, pressure vessels, coolant and containment. Dedicated in generating heat mainly for heavy production, they are operated in more than 30 countries.

Components of nuclear reactor-



1. The Moderator is graphite blocks that slow neutrons to the best reaction rate.
2. The Fuel is a fissionable isotope like U^{235} .
3. The Control Rods, Cd, absorb neutrons to regulate the rate of reaction.
4. The Coolant, water, removes the heat of reaction to make steam for turbine generators.
5. The Shielding, concrete, keeps the radiation inside the reactor.

Reactor Physics Economics

Brendan G. Carr



Reactor Physics Economics:

Reactor physics and economics ,1958 Proceedings: Reactor physics and economics ,1958 **Advanced Reactors: Physics, Design and Economics** J. M. Kallfelz,R. A. Karam,2013-09-03 Advanced Reactors Physics Design and Economics contains the proceedings of the International Conference held at Atlanta Georgia on September 8 11 1974 Organized according to the sessions of the conference this book first describes the national programs for the development of advanced reactors Subsequent sessions centers on economics of advanced reactors developments in reactor theory advanced reactor experiments and analysis cross section data and calculational methods The last three sessions focus on sensitivity analysis of integral reactor parameters problems in the design of advanced reactors and the design and operational experience for advanced reactors *Economics of Nuclear Power* ,1960 **Nuclear Science Abstracts** ,1976 **ERDA Energy Research Abstracts** United States. Energy Research and Development Administration. Technical Information Center,1976 **ERDA Energy Research Abstracts** United States. Energy Research and Development Administration,1976

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