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.
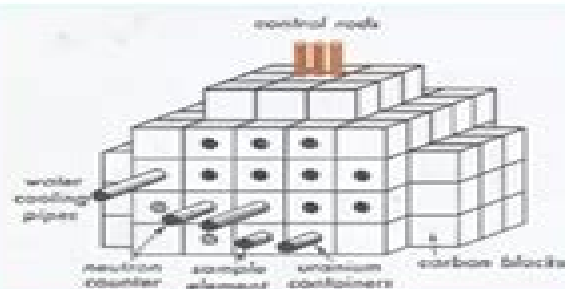They are either research reactors or power reactor.

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 heatv production, they are operated in more than 30 coountries.

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.

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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   Reactor physics and economics ,1958   **Proceedings: Reactor physics and economics** ,1958   *Nuclear Science Abstracts* ,1976   **Economics of Nuclear Power** ,1960

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Nuclear Power Economics ,1964   Heavy-water-moderated Power Reactors Engineering and Economic Evaluations E.I. du Pont de Nemours & Company. Engineering Department. Design Division,1960   **Reactor physics and economics : proceedings of the Second United Nations International Conference on the Peaceful Uses of Atomic Energy, held in Geneva, September 1-13, 1958** ,1958   *Nucleonics* ,1964   **Proceedings: Reactor safety and control** ,1958   Proceedings: Properties of reactor materials ,1958

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In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Reactor Physics Economics**," a mesmerizing literary creation penned with a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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