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(1-1) Introduction (1-1-1) Nuclear Reactor Theory and Reactor Analysis In Part 1 “ Elements of Nuclear Reactor Theory ” , we study an overview of nuclear reactors and how nuclear energy is extracted from reactors. Here, nuclear energy means the energy released in nuclear fission. This occurs because of the absorption of neutrons by fissile material.

~~Nuclear Reactor Theory—東京工業大学~~

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The theory behind nuclear reactors is based first on the principles of nuclear fission. Nuclear fission is the process by which uranium atoms split into fission fragments and release free neutrons. The heat energy of the fission fragments is harnessed as nuclear power and turned into electricity.

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## ~~Introduction to - Gamma Explorer~~

He was the author of many articles and several textbooks, including "Introduction to Nuclear Engineering" and "Nuclear Reactor Theory." Anthony Baratta received the B.A/B.S. degrees in physics/applied physics from Columbia University in 1968 and the M.S. and Ph.D. degrees in physics from Brown University in 1970 and 1978, respectively.

## ~~Lamarsh & Baratta, Introduction to Nuclear Engineering ...~~

Basic concepts of radioactivity, nuclear binding energy, cross-sections, and nuclear fission which are covered by standard undergraduate courses on reactor physics and nuclear physics. Basic knowledge of solving ordinary differential equations and basic linear algebra concepts.

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