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Description. This reprinted edition of the popular textbook by John Lamarsh – a pioneer in nuclear reactor theory education – still serves as an excellent introduction to nuclear reactor theory. The book aims to provide students with an understanding of the fundamental physical principles underlying the operation of a nuclear reactor.

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[John R. Lamarsh – Introduction to Nuclear Reactor Theory ...](#)

(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](#)

@article{osti_5935679, title = (Introduction to nuclear reactor theory), author = (Iliffe, C E), abstractNote = (This book explains about the business of the design and development of nuclear power stations. It does not presuppose extensive knowledge of nuclear physics on the part of the reader, and the level of mathematics required is that typically attained by the graduate engineer.), doi ...

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Introduction to Nuclear Reactor Theory provides the students with the understanding of the phenomena that take place in fission reactors and with the understanding of the nuclear reactor design requirements. This course provides the students with tools for, and experience in simplified design and analysis of nuclear reactor cores.

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[DOE HDBK 1019/2-93: DOE Fundamentals Handbook Nuclear ...](#)

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.

[What is the Theory behind Nuclear Reactors? – Bright Hub ...](#)

This comprehensive introduction covers the fundamental scientific principles governing nuclear fission reactors and the methods used in modern nuclear reactor analysis and design.

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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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