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Emphasis was given to the broad perspective, particularly for topics important to reactor design and operation, with basic coverage provided in such supporting areas as neutronics, thermal-hydraulics, and materials. This, the Fourth Edition, was prepared with these same general objectives in mind.

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Abstract. This new edition of this classic reference combines broad yet in-depth coverage of nuclear

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engineering principles with practical descriptions of their application in design and operation of nuclear power plants. Extensively updated, the fourth edition includes new material on reactor safety and risk analysis, regulation, fuel management, waste management, and operational aspects of nuclear power.

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~~nuclear reactor engineering reactor design basics~~

MIT research advances compact nuclear fusion reactor design. S. Himmelstein | October 05, 2020.

Considerable progress is reported by MIT and Commonwealth Fusion Systems in the development of SPARC, a next-generation fusion initiative launched in 2018. The ongoing research has defined the theoretical and empirical physics basis for the new fusion system, which is expected to start the construction phase in 2021 and take up to four years to complete.

~~MIT research advances compact nuclear fusion reactor design~~

The EPR is a third generation pressurised water reactor design. It has been designed and developed mainly by Framatome (part of Areva between 2001 and 2017) and É lectricit é de France (EDF) in France, and Siemens in Germany. In Europe this reactor design was called European Pressurised Reactor, and the internationalised name was Evolutionary Power Reactor, but it is now simply named EPR.

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~~EPR (nuclear reactor) - Wikipedia~~

Nuclear Engineering and Design covers the wide range of disciplines involved in the engineering, design, safety and construction of nuclear fission reactors. The Editors welcome papers both on applied and innovative aspects and developments in nuclear science and technology. Fundamentals of Reactor Design include:

- Thermal-Hydraulics and Core Physics

~~Nuclear Engineering and Design Journal - Elsevier~~

The APR-1400 is an advanced pressurized water nuclear reactor designed by the Korea Electric Power Corporation. Originally known as the Korean Next Generation Reactor, this Generation III reactor was developed from the earlier OPR-1000 design and also incorporates features from the US Combustion Engineering System 80+ design. Currently in South Korea there are two units in operation, and 4 units in construction. One unit is completed and pending commercial operation in the United Arab Emirates a

~~APR 1400 - Wikipedia~~

With a mechanical engineering background, a qualified practitioner of project management, and an MBA in business he has been fortunate enough to work on a variety of projects including successful manufacturing production of a variety of Jaguars & Landrovers, Design and Construction of Chernobyl New Safe Confinement, support on ITER Fusion reactor systems, Operational support across the UK ...

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This classic reference combines broad, yet in-depth coverage of nuclear engineering principles with practical descriptions of their application in the design and operation of nuclear power plants. Published in a two-volume format to accommodate readers' specific interests, the first volume concentrates on the fundamentals of nuclear engineering, while the second explores applications and more advanced topics.

~~Nuclear Reactor Engineering: Reactor Systems Engineering ...~~

This book focuses on core design and methods for design and analysis. It is based on advances made in nuclear power utilization and computational methods over the past 40 years, covering core design of boiling water reactors and pressurized water reactors, as well as fast reactors and high-temperature gas-cooled reactors.

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Design of a hundred-kilowatt level integrated gas-cooled space nuclear reactor for deep space application  
Zeguang Li, Jun Sun, Malin Liu, Minggang Lang, Lei Shi Article 110569

~~Nuclear Engineering and Design | Vol 361, May 2020 ...~~

The machine, a mini-reactor, will allow researchers to study the physics of fusion reaction, also referred to a burning plasma, which has been likened bringing a mini-sun to Earth. If successful, a...

~~MIT Fusion Startup Gears Up for Reactor Design and ...~~

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The Nuclear Virtual Engineering Capability (NVEC) is a Department for Business, Energy and Industrial Strategy (BEIS) funded programme and is part of a UK government research initiative, establishing a strong nuclear manufacturing and materials supply chain.

## ~~Nuclear Virtual Engineering Capability—NVEC~~

This is the ambition of researchers at the US Department of Energy ' s Oak Ridge National Laboratory (ORNL) who are refining their design of a 3D-printed nuclear reactor core, scaling up the additive manufacturing process necessary to build it, and developing methods to confirm the consistency and reliability of its printed components.

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