



NUCLEAR ENGINEERING AND DESIGN

An International Journal devoted to all aspects of Nuclear Fission Energy

AUTHOR INFORMATION PACK

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DESCRIPTION

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
- Safety Analysis, Risk Assessment (PSA)
- Structural and Mechanical Engineering
- Materials Science
- Fuel Behavior and Design
- Structural Plant Design
- Engineering of Reactor Components
- Experiments

Aspects beyond fundamentals of Reactor Design covered:

- Accident Mitigation Measures
- Reactor Control Systems
- Licensing Issues
- Safeguard Engineering
- Economy of Plants
- Reprocessing / Waste Disposal
- Applications of Nuclear Energy
- Maintenance
- Decommissioning

Papers on new reactor ideas and developments (Generation IV reactors) such as inherently safe modular HTRs, High Performance LWRs/HWRs and LMFBRs/GFR will be considered; Actinide Burners, Accelerator Driven Systems, Energy Amplifiers and other special designs of power and research reactors and their applications are also encouraged.

AUDIENCE

Civil, mechanical and structural engineers working in the fission field; reactor designers.

IMPACT FACTOR

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[dataset] Oguro, M., Imahiro, S., Saito, S., Nakashizuka, T., 2015. Mortality data for Japanese oak wilt disease and surrounding forest compositions. *Mendeley Data*, v1. <https://doi.org/10.17632/xwj98nb39r.1>.

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