

Geoffrey T. Parks

Publications:

- Coates, D. J., & Parks, G. T. (2012). Safety implications of reactivity variations in fast thorium ADSRs. *Annals of Nuclear Energy*, 47, 115-123.
- Lindley, B. A., & Parks, G. T. (2012). The performance of closed reactor grade plutonium-thorium fuel cycles in reduced-moderation pressurised water reactors. *Annals of Nuclear Energy*, 47, 192-203.
- Ahmad, A., Sheehy, S. L., & Parks, G. T. (2012). The effect of beam interruptions on the integrity of ADSR fuel pin cladding: A thermo-mechanical analysis. *Annals of Nuclear Energy*, 46, 97-105.
- Ahmad, A., & Parks, G. T. (2012). The mechanical integrity of fuel pin cladding in a pulsed-beam accelerator driven subcritical reactor. *Annals of Nuclear Energy*, 42, 35-42.
- Eastham, S. D., Coates, D. J., & Parks, G. T. (2012). A novel method for rapid comparative quantitative analysis of nuclear fuel cycles. *Annals of Nuclear Energy*, 42, 80-88.
- Steer, S. J., Cardin, M.-A., Nuttall, W. J., Parks, G. T., & Goncalves, L. V. N. (2012). Minimising the economic cost and risk to accelerator-driven subcritical reactor technology: The case of designing for flexibility: Part 1. *Nuclear Engineering and Design*, 243, 135-147. doi:[10.1016/j.nucengdes.2011.11.027](https://doi.org/10.1016/j.nucengdes.2011.11.027)
- Cardin, M.-A., Steer, S. J., Nuttall, W. J., Parks, G. T., Goncalves, L. V. N., & De Neufville, R. (2012). Minimizing the economic cost and risk to Accelerator-Driven Subcritical Reactor technology. Part 2: The case of designing for flexibility. *Nuclear Engineering and Design*, 243, 120-134. doi:[10.1016/j.nucengdes.2011.11.026](https://doi.org/10.1016/j.nucengdes.2011.11.026)
- Lindley, B. A., & Parks, G. T. (2012). Near-complete transuranic waste incineration in a thorium fuelled pressurised water reactor. *Annals of Nuclear Energy*, 40, 106-115.
- Coates, D. J., & Parks, G. T. (2011). Actinide breeding and reactivity variation in a thermal spectrum ADSR - Part 2: Enhanced sustainability in the thermal spectrum. *Annals of Nuclear Energy*, 38, 2132-2139. doi:[10.1016/j.anucene.2011.06.027](https://doi.org/10.1016/j.anucene.2011.06.027)
- Coates, D. J., Lindley, B. A., & Parks, G. T. (2011). Actinide breeding and reactivity variation in a thermal spectrum ADSR - Part 1: Development of a lumped thermal reactor model. *Annals of Nuclear Energy*, 38, 2120-2131. doi:[10.1016/j.anucene.2011.06.028](https://doi.org/10.1016/j.anucene.2011.06.028)
- Steer, S. J., Nuttall, W. J., Parks, G. T., & Goncalves, L. V. N. (2011). Predicting the contractual cost of unplanned shutdowns of power stations: An accelerator-driven subcritical reactor case study. *Electrical Power Systems Research*, 81, 1662-1671. doi:[10.1016/j.epsr.2011.03.023](https://doi.org/10.1016/j.epsr.2011.03.023)
- Coates, D. J., & Parks, G. T. (2010). Actinide evolution and equilibrium in fast thorium reactors. *Annals of Nuclear Energy*, 37, 1076-1088. doi:[10.1016/j.anucene.2010.04.004](https://doi.org/10.1016/j.anucene.2010.04.004)