1. Record Nr. UNINA9910789449103321

Autore	Frost Brian R. T.
Titolo	Nuclear fuel elements : design, fabrication, and performance / / by Brian R. T. Frost
Pubbl/distr/stampa	Oxford, England : , : Pergamon Press, , 1982 ©1982
ISBN	1-4831-5525-0
Edizione	[First edition.]
Descrizione fisica	1 online resource (284 p.)
Collana	Pergamon International Library of Science, Technology, Engineering, and Social Studies
Disciplina	621.48/335
Soggetti	Nuclear fuel elements
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Front Cover; Nuclear Fuel Elements: Design, Fabrication and Performance; Copyright Page; Foreword; Table of Contents; Chapter 1. Introduction and Philosophy; The reactor operator's approach; The materials scientist's approach; The interdisciplinary approach; REFERENCES; Chapter 2. Fuel Types; Fuel origins; Fuel forms; Metel fuels; Metallic dispersion fuels; Liquid fuels; Fuel characterization; REFERENCES; Appendix: Phase diagrams; Chapter 3. Irradiation Behaviour of Fuels; Oxides; Carbides and nitrides; Dispersion fuels; Appendix: Burn-up and rating of nuclear fuels Chapter 4. Cladding and Duct MaterialsDesign considerations; Commonly used materials and their properties; Compatibility; Radiation effects; REFERENCES; Chapter 5. Fuel Element Design and Modelling; Some sources of data and codes; REFERENCES; Chapter 6. Fuel Element Performance Testing and Qualification; Strategies; Post-test examination; Commercialization; REFERENCES; Appendix: Suppliers of specialized equipment; Chapter 7. Experimental Techniques and Equipment; Out-of-pile; In-pile; Post-irradiation examination; REFERENCES; Chapter 8. Water Reactor Fuel Performance; PWR; BWR; HWR; Failure Failure mechanismsLicensing and regulation; 17 x 17 Fuel surveillance programme; REFERENCES; Chapter 9. Gas-cooled Reactor Fuel

	Elements; Magnox; French gas-graphite; AGR; HTGR; Safety; REFERENCES; Chapter 10. Fast Reactor Fuel Elements; Introduction; Early reactors; Prototype reactors; REFERENCES; Chapter 11. Research and Test Reactor Fuel Elements; REFERENCES; Chapter 12. Unconventional Fuel Elements; Some Useful General References; Tabulation of Industrial Capabilities in the USA; Index
Sommario/riassunto	Nuclear Fuel Elements: Design, Fabrication and Performance is concerned with the design, fabrication, and performance of nuclear fuel elements, with emphasis on fast reactor fuel elements. Topics range from fuel types and the irradiation behavior of fuels to cladding and duct materials, fuel element design and modeling, fuel element performance testing and qualification, and the performance of water reactor fuels. Fast reactor fuel elements, research and test reactor fuel elements, and unconventional fuel elements are also covered. This volume consists of 12 chapters and begins with an overvie

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Record Nr.	UNINA9910566485803321
Autore	Muduli Kamalakanta
Titolo	Blockchain Technology for Enhancing Supply Chain Performance and Reducing the Threats Arising from the COVID-19 Pandemic
Pubbl/distr/stampa	Basel, : MDPI - Multidisciplinary Digital Publishing Institute, 2022
Descrizione fisica	1 online resource (138 p.)
Soggetti	History of engineering & technology Technology: general issues
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	A rigorous examination of the most recent advancements in blockchain technology (BCT) and artificial intelligence (AI)-enabled supply chain networks is provided in this book. The edited book brings together the perspectives of a number of authors who have presented their most

recent views on blockchain technology and its applications in a variety of disciplines. The submitted papers contribute to a better understanding of how blockchain technology can improve the efficacy of human activities during a pandemic, improve traceability and visibility in the automotive supply chain, support food safety and reliability through digitalisation of the food supply chain, and increase the performance of next-generation digital supply chains, among other things. The book attempts to address and prepare a way to address the complicated issues that supply chains are encountering as a result of the global pandemic.