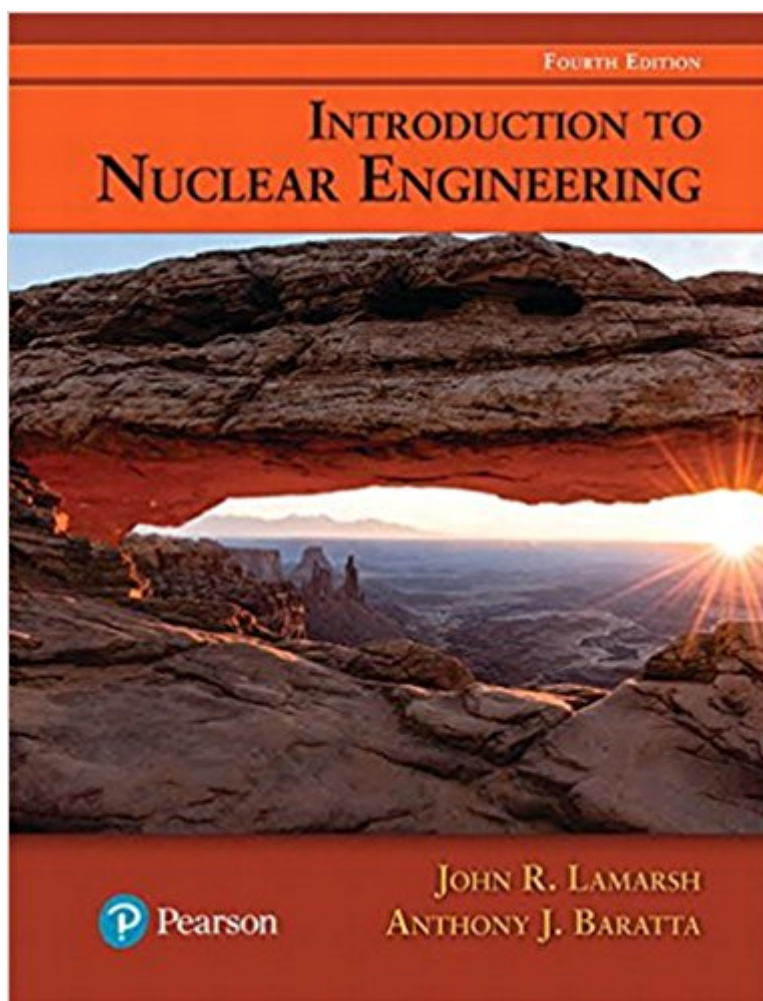


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Introduction To Nuclear Engineering (4th Edition)



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For junior- and senior-level courses in Nuclear Engineering. **Applying nuclear engineering essentials to the modern world** *Introduction to Nuclear Engineering*, 4th Edition reflects changes in the industry since the 2001 publication of its predecessor. With recent data and information, including expanded discussions about the worldwide nuclear renaissance and the development and construction of advanced plant designs, the text aims to provide students with a modern, high-level introduction to nuclear engineering. The nuclear industry is constantly in flux, and the 4th Edition helps students understand real-world applications of nuclear technology in the United States and across the globe.

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John R. Lamarsh (deceased) was the head of the nuclear engineering department at the Polytechnic Institute of New York (now the New York University Tandon School of Engineering). He was considered an expert on nuclear energy policy and safety, nuclear weapons proliferation, and was appointed administrative judge of the Federal Nuclear Regulatory Commission. He served as a consultant to the Brookhaven National Laboratory, the National Science Foundation, the Federal Office of Technology Assessment and the Library of Congress. 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. He is Professor Emeritus of Nuclear Engineering, The Pennsylvania State University retiring in 2003. While at Penn State, his research interests and contributions include reactor safety, reactor kinetics and physics, and the effects of radiation on materials. He has authored many scientific publications and made numerous presentations. After his retirement he was appointed as the Associate Chief Judge of the Atomic Safety and Licensing Board Panel, US Nuclear Regulatory Commission where he served until 2015. He is currently a part-time judge with the panel and an active member of the American Nuclear Society. He has appeared on many network television and radio broadcasts as an authority on reactor accidents, including the accidents at Three Mile Island and Fukushima.

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