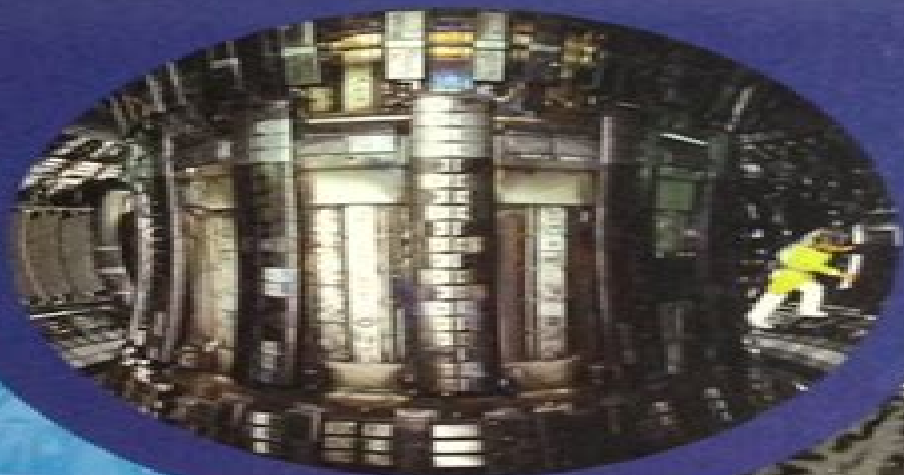


Nuclear Physics

Principles
and Applications

John Lilley



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Physics of Energy Sources George C. King, 2017-06-12 Physics of Energy Sources provides readers with a balanced presentation of the fundamental physics needed to understand and analyze conventional and renewable energy sources including nuclear solar wind and water power It also presents various ways in which energy can be stored for future use The book is an informative and authoritative text for students in the physical sciences and engineering and is based on a lecture course given regularly by the author With the ever increasing demand for sustainable environmentally friendly and reliable sources of energy the need for scientists and engineers equipped to tackle the challenges of developing and improving upon commercially viable energy sources has never been more urgent By focusing on the physical principles governing energy production storage and transmission this book provides readers with a solid foundation in the science and technology of energy sources Physics of Energy Sources features include Analyses of conventional and renewable energy sources in terms of underlying physical principles Integrated application of a wide range of physics from classical to quantum physics Coverage of nuclear wind wave tidal hydroelectric geothermal and solar power including many practical systems

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