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systems at the
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which maintains
the U.S. nuclear
weapons stockpile.

Provides timely and
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up-to-date facts, context, perspectives, and tools to make informed decisions about nuclear energy. • Surveys five decades of controversy and examines the effects of nuclear disasters • Explains why nuclear power is being proposed

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as an important solution to the problem of global climate change • Supplies opinions from experts and advocates regarding the future of the nuclear industry • Provides overview information on technical topics such as the nuclear

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In the 21st century, nuclear power has

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especially in light of the meltdown at the Fukushima plant in 2011? This guide provides both a comprehensive overview of this critical and controversial technology, presenting reference tools that include important

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This second edition represents an extensive revision of the first edition, - though the motivation for the book and the intended audiences, as described in the pre

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vious preface, remain the same. The overall length has been increased

substantially, with revised or expanded

discussions of a number of topics, including Yucca Mountain

repository plans, new reactor designs, health

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Effects of radiation, costs of electricity, and dangers from terrorism and weapons proliferation. The overall status of nuclear power has changed rather little over the past eight years.

Nuclear reactor construction remains at a very

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low ebb in much of the world, with the exception of Asia, while nuclear power's share of the electricity supply continues to be about 75% in France and 20% in the United States. However, there are signs of a heightened interest in considering possible nuclear

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growth. In the late 1990s, the U. S. Department of Energy began new programs to stimulate research and planning for future reactors, and many candidate designs are now contending—at least on paper—to be the next

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generation leaders.

Outside the United States, the

commercial

development of the

Pebble Bed Modular

Reactor is being purs

ued in South Africa, a

French- German

consortium has

won an order from

Finland for the long-

planned EPR

(European

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Pressurized Water Reactor), and new reactors have been built or planned in Asia. In an unanticipated positive

development for nuclear energy, the capacity factor of U. S. reactors has increased dramatically in recent years, and

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engineering to an
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encompasses all the engineering disciplines which are applied in the design, licensing, construction, and operation of nuclear reactors, nuclear power plants, nuclear fuel cycle facilities, and finally the decontamination and

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decommissioning of these facilities at the end of their useful operating life. It also introduces some important aspects of radiation and its applications. The handbook examines many of these aspects in its four sections.

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the way it covers a bit of the engineering, reactor history, different kinds of reactors and what can go wrong with them. Much of this is seen from the viewpoint of a trainee operator on a Pressurised Water Reactor - the most common type

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of nuclear reactor in the world. Colin Tucker has spent the last thirty years keeping reactors safe. Join him on a tour that is the next best thing to driving a nuclear reactor yourself!

Steam Generators for Nuclear Power Plants examines all

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phases of the
lifecycle of nuclear
steam generators
(NSGs),

components which
are essential for
the efficient and
safe operation of
light water reactors
(LWRs). Coverage
spans the design,
manufacturing,
operation and
maintenance,

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fitness-for-service,
and long-term
operation of these
key reactor parts.

Part One opens
with a chapter that
provides

fundamental
background on
NSG engineering
and operational
experiences.

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describe NSG
design and
manufacturing, and
consider the
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SGs for VVER
reactors. Part Two
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operation and
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overview of the
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to support reliable and safe operation. The discussion then moves on to tubing vibration, followed by the water and steam cycle chemistry issues relevant to the NSG lifecycle. Finally, a number of chapters focus on the key issue of corrosion in NSGs

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from different
angles. This book
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professionals
involved in all
phases of the NSG
lifecycle, from
design,
manufacturing,
operation and
maintenance, to
fitness-for-service
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operation. It is also intended as a valuable resource for students and researchers interested in a range of topics relating to NSG lifecycle management.

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