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This book covers seismic probabilistic risk assessment (S-PRA) and related studies which have become more important to increase the safety of nuclear facilities against earthquakes and tsunamis in the face of the many uncertainties after the Fukushima accident. The topics are (1) Active faults and active tectonics important for seismic hazard assessment of nuclear facilities, (2) Seismic source modeling and simulation and modeling techniques indispensable for strong ground motion prediction ...

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In particular, the risk concept in a nuclear system regarding seismic motion and a tsunami beyond the design basis is indispensable. Therefore, research and development for PRA enhancing nuclear safety are being actively pursued not only in Japan but also worldwide.

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exist in natural phenomena such as earthquakes and tsunamis, a risk concept for seismic motion and tsunamis beyond a design basis is indispensable. Under such circumstances, an international symposium “ Earth quake, Tsunami and Nuclear Risks After the accident of TEPCO ’ s Fukushima Daiichi Nuclear

~~Katsuhiko Kamae Editor Earthquakes, Tsunamis and Nuclear Risks~~

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In March 2011 eleven operating nuclear power plants shut down automatically during the major earthquake in Japan (Fukushima). Three of these subsequently caused an INES Level 7 accident due to the 15 m tsunami causing loss of power leading to loss of cooling and subsequent radioactive releases. Introduction

~~Nuclear Power Plants and Earthquakes—World Nuclear ...~~

“ All nuclear plants can be subject to severe accidents due to purely internal causes, but natural disasters like earthquakes, tsunamis, hurricanes, and storm surges make accidents more likely because they cause stresses on the reactor that could lead to some failures while simultaneously disabling one or more safety systems, ” says Ramana, who has worked extensively on nuclear energy.

~~Nuclear plants in Arabian Sea face tsunami risk—SciDev ...~~

On 30 October 2020, a significant tsunami triggered by an earthquake of magnitude 7.0 Mw hit the island of Samos (Greece) and the Aegean coast of the Izmir region (Turkey). The event shed light — once again — on the complexity of warning of locally generated tsunamis of rapid onset which challenged the ability of local authorities and communities at risk to take early action.

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~~Serious tsunami hits Greece and Turkey after 7.0 earthquake~~

recent earthquakes and tsunamis in terms of tsunami generation and resulting impacts. The second most important sources of tsunamis are volcanoes and landslides. Tsunamigenic landslides often trigger earthquakes but other mechanisms can also trigger them.

~~2. Tsunami Hazard and Risk Assessment~~

To make matters worse, the tsunami damaged the Fukushima Daiichi nuclear power plant, creating radioactive leaks. The tsunami disabled cooling at three Fukushima reactors, and the cores melted within 72 hours. 8 At first, engineers couldn't stop the leakage, and even after they did, it took months to halt emissions completely. 9 10

~~Japan's 2011 Earthquake and Tsunami: Economic Impact~~

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A nuclear reactor in northern Japan on Wednesday became the first among those damaged by the 2011 earthquake and tsunami to get final restart approval, with support from regional authorities. One of the reactors at the Onagawa nuclear plant, 340 kilometres (210 miles) north of Tokyo, had already been cleared for restart by regulatory authorities after meeting new safety standards imposed after ...

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