1. Record Nr. UNINA9910828903503321 The 2011 Fukushima nuclear power plant accident: how and why it **Titolo** happened / / Yotaro Hatamura [and three others] : translated by Kenji lino Cambridge, England:,: Elsevier:,: Woodhead Publishing,, 2015 Pubbl/distr/stampa ©2015 **ISBN** 0-08-100132-0 0-08-100118-5 Edizione [First edition.] Descrizione fisica 1 online resource (220 p.) Collana Woodhead Publishing Series in Energy;; Number 73 Disciplina 363.17990952117 Soggetti Fukushima Nuclear Disaster, Japan, 2011 Tohoku Earthquake and Tsunami, Japan, 2011 Nuclear accidents - Environmental aspects 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 and index. Nota di contenuto Front Cover; The 2011 Fukushima Nuclear Power Plant Accident: How and Why it Happened; Copyright; Contents; List of authors; Woodhead Publishing Series in Energy; Introduction; Chapter 1: The Fukushima-1 nuclear power plant accident; 1.1. Introduction; 1.2. Energy production in Japan; 1.2.1. The energy situation in Japan; 1.2.2. The Fukushima-1 accident: an unprecedented nuclear power accident; 1.3. The Fukushima-1 nuclear power plant; 1.3.1. TEPCO and nuclear power generation; 1.3.2. Overview of Fukushima-1 nuclear reactors; 1.3.3. Operation of the NPP; 1.3.4. Emergency operations 1.4. The Tohoku Area Pacific Offshore Earthquake and tsunami1.4.1. The Tohoku Area Pacific Earthquake; 1.4.2. The Tohuku Area tsunami; 1.4.3. Status of the nuclear reactors before the earthquake; 1.4.4. Seismic movement at Fukushima-1 NPP; 1.4.5. The tsunami at Fukushima-1 NPP: 1.5. Nuclear power safety and disaster prevention systems in Japan; 1.5.1. Nuclear safety laws and regulations; 1.5.2. Administration of nuclear safety; 1.5.3. Organizations in charge of nuclear safety and regulation; 1.5.4. Overview of the legal system for nuclear disaster management

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## Sommario/riassunto

In March 2011 the Fukushima nuclear power plant (NPP) in Japan was hit by an earthquake and subsequent tsunami which resulted in the release of significant amounts of radioactive material. The incident led to the suspension of nuclear programmes by a number of countries. This book provides a definitive account of the accident. Outlines the main sequence of events of the 2011 Fukushima nuclear power plant accident, considers the responses of central and local government, and evaluates the response of the plant owner TEPCO.Describes and assesses the effectiveness of the evacuation process and s