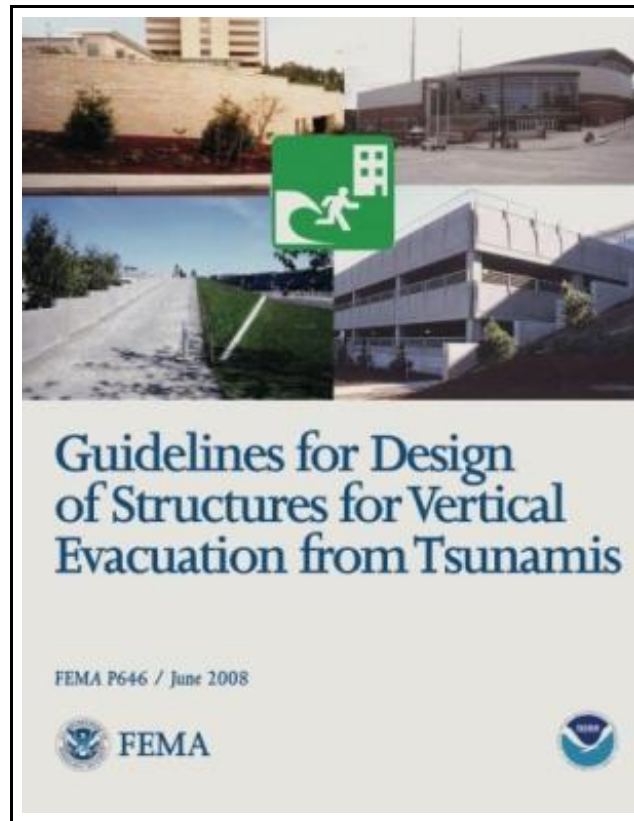


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GUIDELINES FOR DESIGN OF STRUCTURES FOR VERTICAL EVACUATION FROM TSUNAMIS (FEMA P646 JUNE 2008)



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Createspace. Paperback. Book Condition: New. This item is printed on demand. Paperback. 174 pages. Dimensions: 11.0in. x 8.5in. x 0.4in. FEMA initiated this project in September 2004 with a contract to the Applied Technology Council. The project was undertaken to address the need for guidance on how to build a structure that would be capable of resisting the extreme forces of both a tsunami and an earthquake. This question was driven by the fact that there are many communities along our nations west coast that are located on narrow spits of land and are vulnerable to a tsunami triggered by an earthquake on the Cascadia subduction zone, which could potentially generate a tsunami of 20 feet in elevation or more within 20 minutes. Given their location, it would be impossible to evacuate these communities in time, which could result in a significant loss of life. Many coastal communities subject to tsunami located in other parts of the country also have the same potential problem. In these cases, the only feasible alternative is vertical evacuation, using specially design, constructed and designated structures built to resist both tsunami and earthquake loads. The significance of this issue came into sharp relief with the December 26, 2004 Sumatra earthquake and Indian Ocean tsunami. While this event resulted in a tremendous loss of life, this would have been even worse had not many people been able to take shelter in multi-story reinforced concrete buildings. Without realizing it, these survivors were among the first to demonstrate the concept of vertical evacuation from a tsunami. This publication presents the following information: General information on the tsunami hazard and its history; Guidance on determining the tsunami hazard, including the need for tsunami depth and velocity on a site-specific basis; Different options for vertical evacuation from tsunamis; Determining tsunami and...

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