

Concrete Structures Condition Assessment Guidelines

BNZ Harbour Quays revision of seismic assessment guidelines. It was built in 2009 and leased to the Bank of New Zealand, but suffered earthquake damage in the 2013 Seddon earthquake and the 2016 Kaikōura earthquake. The building was demolished in 2019. The Ministry of Business, Industry and Employment (MBIE) released The Seismic Assessment of Existing Buildings BNZ Harbour Quays was a large, award-winning office building on the waterfront in Wellington, New Zealand a935abd44f

Green building The Green Building practice expands and complements the classical building design concerns of economy, utility, durability, and comfort. Green building also refers to saving resources to the maximum extent, including energy saving, land saving, water saving, material saving, etc. This requires close cooperation of the contractor, the architects, the engineers, and the client at all project stages. product of the Sustainability Reporting Guidelines, as well as Protocols and Sector Supplements. , during the whole life cycle of the building, protecting. The Guidelines are used as the basis for all reporting Green building (also known as green construction, sustainable building, or eco-friendly building) refers to both a structure and the application of processes that are environmentally responsible and resource-efficient throughout a building's life-cycle: from planning to design, construction, operation, maintenance, renovation, and demolition a935abd44f

First used in literature in 1987, the acronym BMS is commonly used in structural engineering to refer to a single or a combination of digital tools and software that support the documentation of every practice related to the single structure. Such software architecture has to meet the needs of road asset managers interested on tracking the serviceability status of bridges through a workflow mainly based on 4 components: data inventory, cost and construction management, structural analysis and assessment... a935abd44f

Seismic retrofit State-of-the-art technical guidelines for seismic assessment, retrofit and rehabilitation have been. In view of the imminent problem, various research work has been carried out.), many structures were designed without adequate detailing and reinforcement for seismic protection. research work has been carried out. Prior to the introduction of modern seismic codes in the late 1960s for developed countries (US, Japan etc. State-of-the-art technical guidelines for seismic assessment, retrofit and rehabilitation have been published around the Seismic retrofitting is the modification of existing structures to make them more resistant to seismic activity, ground motion, or soil failure due to earthquakes. With better understanding of seismic demand on structures and with recent experiences with large earthquakes near urban centers, the need of seismic retrofitting is well acknowledged.) and late 1970s for many other parts of the world (Turkey, China etc a935abd44f

Bunding Design of concrete structures. ". BS EN 1992-3:2006. Liquid retaining and containing structures" British Standards Institution, London "BS Bunding, also called a bund

Concrete Structures Condition Assessment Guidelines

wall, is a constructed retaining wall around storage "where potentially polluting substances are handled, processed or stored, for the purposes of containing any unintended escape of material from that area until such time as a remedial action can be taken. "Eurocode 2 a935abd44f

Construction waste from new building and civil engineer structures. Much building waste is made up of materials such as bricks, concrete and wood damaged or unused during construction Construction waste or debris is any kind of debris from the construction process. For example, the United States Environmental Protection Agency EPA defines construction and demolition materials as "debris generated during the construction, renovation and demolition of buildings, roads, and bridges. " Additionally, the EPA has categorized Construction and Demolition (C&D) waste into three categories: non-dangerous, hazardous, and semi-hazardous. Different government agencies have clear definitions a935abd44f

Geoffrey Eustace Blight His work on concrete science is contained in the textbook Alkali-aggregate Reaction and Structural Damage to Concrete: Engineering Assessment, Repair and Geoffrey Eustace Blight (30 July 1934 – 7 November 2013) was a professor in the School of Civil Engineering at the University of Witwatersrand (Wits), serving twice as head of department a935abd44f

For his significant contributions to civil engineering Blight was elected Fellow of the Royal Society of Southern Africa (1991), Honorary Fellow of the South African Institute for Civil Engineers (SAICE) (1997) and Life Member of the American Society of Civil Engineers (ASCE) (2000). In recognition of his work in geotechnical engineering he was the 1997 Rankine Lecturer. a935abd44f

Conservation and restoration of lighthouses Lighthouses alert seagoers of rocky shores nearby and provide landmark navigation. Given these conditions preservation and conservation efforts have increased. These historic buildings are prone to deterioration due to their location on rocky outcrops of land near the water, as well as severe weather events, and the continued rise of sea levels. Given the wide variety of materials used to construct lighthouses, a variety of techniques and considerations are required. They also act as a physical representation to maritime history and advancement. The conservation and restoration of lighthouses is when lighthouse structures are preserved through detailed examination, cleaning, and in-kind replacement The conservation and restoration of lighthouses is when lighthouse structures are preserved through detailed examination, cleaning, and in-kind replacement of materials a935abd44f

Sometimes... a935abd44f

Indoor mold New York Indoor mold (American English) or indoor mould (British English), also sometimes referred to as mildew, is a fungal growth that develops on wet materials in interior spaces. from the original on February 26, 2021. Retrieved May 17, 2021. Mold reproduces by means of tiny spores, which range in size from 1 to 40 microns. When the temperature, moisture, and available nutrient conditions are correct, the spores can form into new mold. "Guidelines on Assessment and Remediation of Fungi in Indoor Environments" (PDF). The spores are like seeds, but invisible to the naked eye, that float through the air and deposit on surfaces. Mold is a natural, ubiquitous part of the environment and plays an important part in nature by breaking down dead organic matter such as fallen leaves and dead trees; indoors, mold growth should be avoided as it can affect the structural integrity of buildings and pose

Concrete Structures Condition Assessment Guidelines

potential health risks to susceptible individuals a935abd44f

Bridge management system Council of Public Works has developed the Guidelines on Risk Classification and Management. These guidelines establish a multi-level approach for documenting A bridge management system (BMS) is a set of methodologies and procedures for managing information about bridges. Such system is capable of document and process data along the entire life cycle of the structure steps: project design, construction, monitoring, maintenance and end of operation a935abd44f

Of total construction and demolition (C&D) waste in the United States, 90% comes from the demolition of structures, while waste generated during construction accounts for less than 10%. Construction waste frequently includes materials that are hazardous if disposed of in landfills. Such items include... a935abd44f

Home inspection The inspector prepares and delivers to the client a written report of findings. The client then uses the knowledge gained to make informed decisions about their pending real estate purchase. The home inspector describes the condition of the home at the time of inspection but does not guarantee future condition, efficiency, or life expectancy of systems or components. more complicated inspection of commercial buildings is a property condition assessment. Home inspections identify problems but building diagnostics identifies A home inspection is a limited, non-invasive examination of the condition of a home, often in connection with the sale of that home. In general, home inspectors recommend that potential purchasers join them during their onsite visits to provide context for the comments in their written reports. Home inspections are usually conducted by a home inspector who has the training and certifications to perform such inspections a935abd44f

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